

STATE OF UTAH
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL							1. WELL NAME and NUMBER NBU 1022-10C3CS			
2. TYPE OF WORK <input checked="" type="checkbox"/> DRILL NEW WELL <input type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL							3. FIELD OR WILDCAT NATURAL BUTTES			
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO							5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES			
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.							7. OPERATOR PHONE 720 929-6515			
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217							9. OPERATOR E-MAIL julie.jacobson@anadarko.com			
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UO 01197			11. MINERAL OWNERSHIP <input checked="" type="checkbox"/> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE				12. SURFACE OWNERSHIP <input checked="" type="checkbox"/> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE			
13. NAME OF SURFACE OWNER (if box 12 = 'fee')							14. SURFACE OWNER PHONE (if box 12 = 'fee')			
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')							16. SURFACE OWNER E-MAIL (if box 12 = 'fee')			
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit Commingle Application) <input type="checkbox"/> NO				19. SLANT VERTICAL DIRECTIONAL HORIZONTAL			
20. LOCATION OF WELL		FOOTAGES		QTR-QTR		SECTION		TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE		919 FNL 1705 FWL		NENW		10		10.0 S	22.0 E	S
Top of Uppermost Producing Zone		1079 FNL 1528 FWL		NENW		10		10.0 S	22.0 E	S
At Total Depth		1079 FNL 1528 FWL		NENW		10		10.0 S	22.0 E	S
21. COUNTY UNTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 213				23. NUMBER OF ACRES IN DRILLING UNIT 40			
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 227				26. PROPOSED DEPTH MD: 8874 TVD: 8863			
27. ELEVATION - GROUND LEVEL 5303			28. BOND NUMBER 22013542				29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-8496			
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
SURF	11	8.625	0 - 2500	28.0	J-55 LT&C	0.2	Type V	180	1.15	15.8
							Class G	270	1.15	15.8
PROD	7.875	4.5	0 - 8874	11.6	I-80 LT&C	12.0	Premium Lite High Strength	300	3.38	12.0
							50/50 Poz	1180	1.31	14.3
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Danielle Piernot			TITLE Regulatory Analyst				PHONE 720 929-6156			
SIGNATURE			DATE 07/19/2012				EMAIL danielle.piernot@anadarko.com			
API NUMBER ASSIGNED 43047529990000			APPROVAL  Permit Manager							

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 1022-10C3CS**

Surface: 919 FNL / 1705 FWL NENW
BHL: 1079 FNL / 1528 FWL NENW

Section 10 T10S R22E

Uintah County, Utah
Mineral Lease: UT ST UO 01197 ST

ONSHORE ORDER NO. 1**DRILLING PROGRAM**

1. & 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1,251'	
Birds Nest	1,551'	Water
Mahogany	2,047'	Water
Wasatch	4,386'	Gas
Mesaverde	6,690'	Gas
Sego	8,863'	Gas
TVD	8,863'	
TD	8,874'	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 8874' TVD, approximately equals
5,406 psi 0.61 psi/ft = actual bottomhole gradient

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,480 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-
(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program.
Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- Blowout Prevention Equipment (BOPE) requirements;
- Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill a 11inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the bloopie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the bloopie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

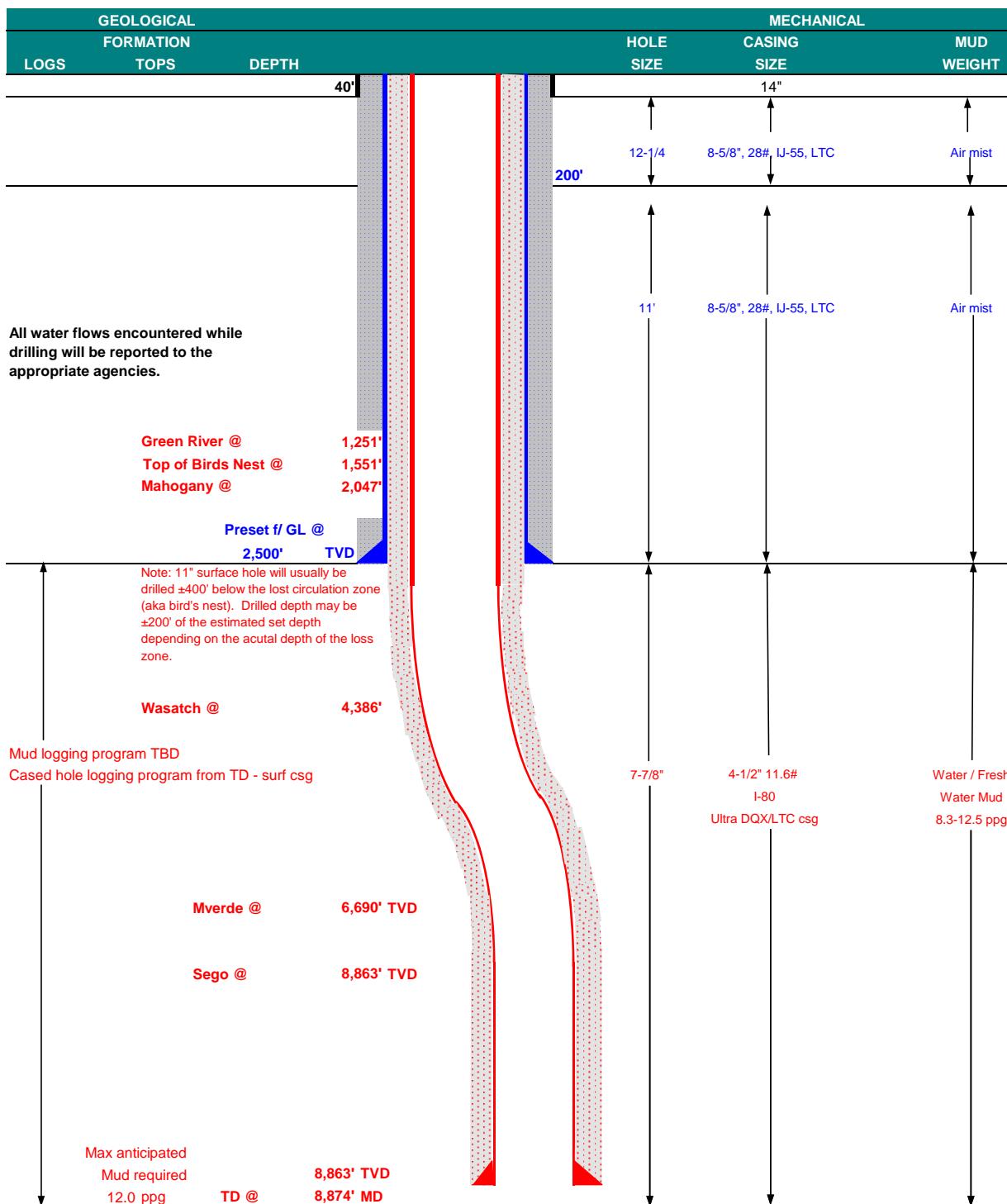
10. Other Information:

Please refer to the attached Drilling Program.



KERR-MCGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

COMPANY NAME	KERR-MCGEE OIL & GAS ONSHORE LP			DATE	July 19, 2012
WELL NAME	NBU 1022-10C3CS			TD	8,863' TVD 8,874' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah
SURFACE LOCATION	NENW	919 FNL	1705 FWL	Sec 10	T 10S R 22E
	Latitude:	39.968249	Longitude:	-109.428605	NAD 27
BTM HOLE LOCATION	NENW	1079 FNL	1528 FWL	Sec 10	T 10S R 22E
	Latitude:	39.967816	Longitude:	-109.429236	NAD 27
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: UDOGM (Minerals), UDOGM (Surface), UDOGM Tri-County Health Dept.				





KERR-MCGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS			TENSION
						LTC	DQX	COLLAPSE	
CONDUCTOR	14"	0-40'				3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0 to 2,500	28.00	IJ-55	LTC	2.16	1.61	5.68	N/A
PRODUCTION	4-1/2"	0 to 5,000	11.60	I-80	DQX	7,780	6,350	223,000	267,035
	4-1/2"	5,000 to 8,874'	11.60	I-80	LTC	1.11	1.15	6.08	3.18
									267,035

Surface Casing:

(Burst Assumptions: TD = 12.0 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.61 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD 500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
	TOP OUT CMT (6 jobs) 1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
SURFACE Option 2	LEAD 2,000'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	180	35%	11.00	3.82
	TAIL 500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80	1.15
PRODUCTION	TOP OUT CMT as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
	LEAD 3,884'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	300	35%	12.00	3.38
	TAIL 4,990'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,180	35%	14.30	1.31

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well. 1 centralizer on the first 3 joints and one every third joint thereafter.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

Nick Spence / Danny Showers / Travis Hansell

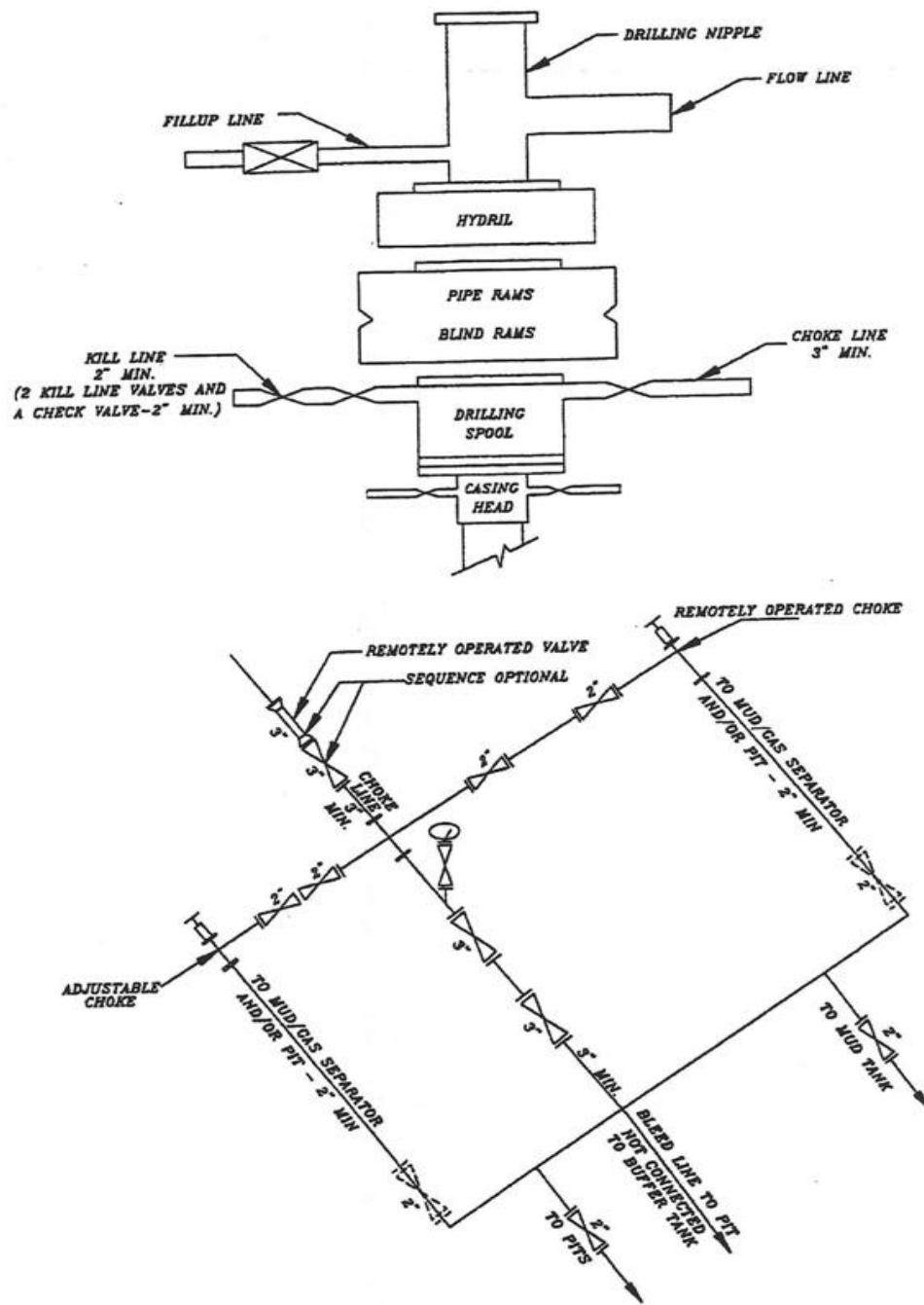
DATE: _____

DRILLING SUPERINTENDENT:

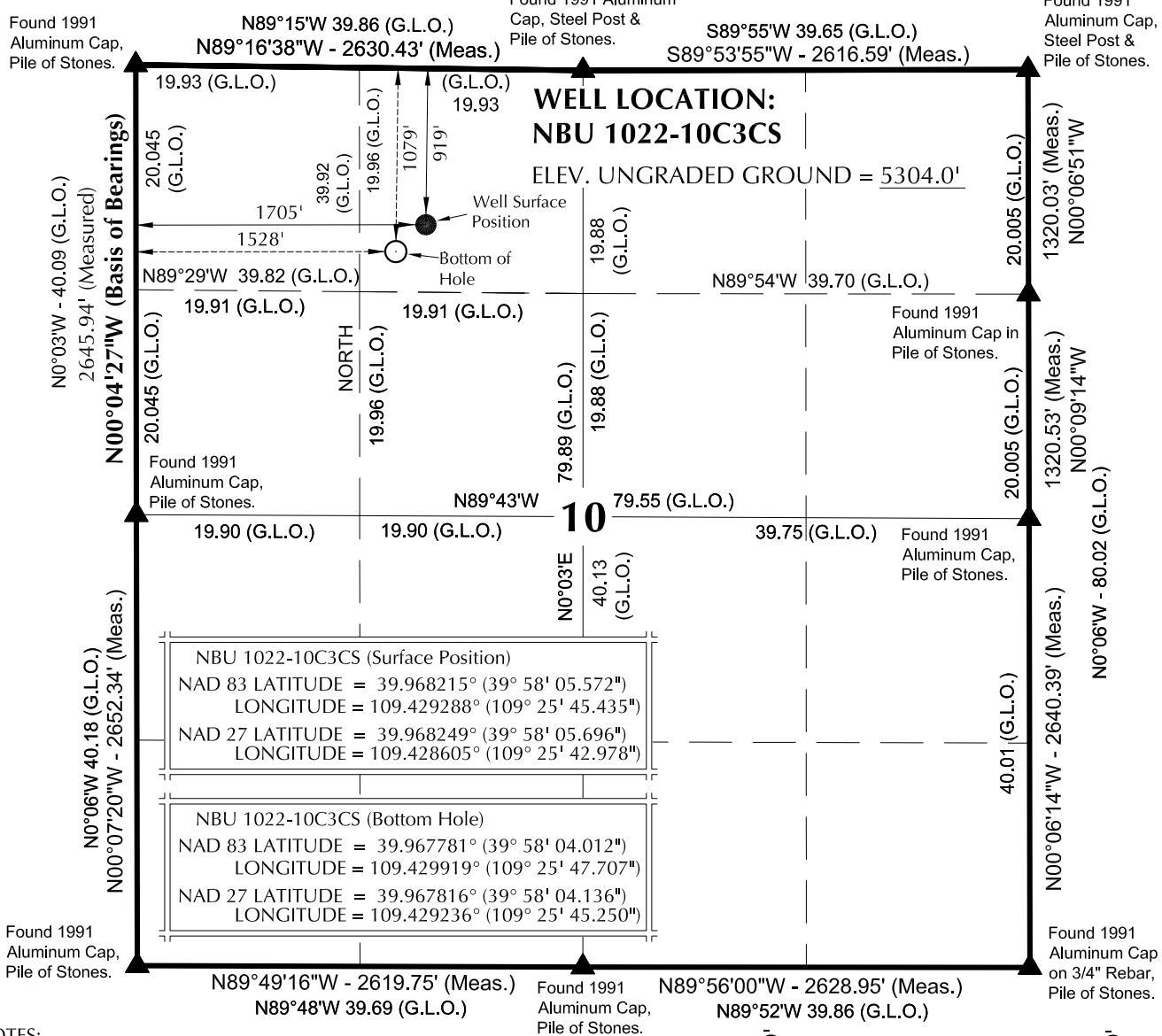
Kenny Gathings / Lovel Young

DATE: _____

EXHIBIT A
NBU 1022-10C3CS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

T10S, R22E, S.L.B.&M.

CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD: NBU 1022-10C

NBU 1022-10C3CS

WELL PLAT

1079' FNL, 1528' FWL (Bottom Hole)
NE $\frac{1}{4}$ NW $\frac{1}{4}$ OF SECTION 10, T10S, R22E,
S.L.B.&M., UNTAH COUNTY, UTAH.

TIMBERLINE

ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

DATE SURVEYED: 6-4-12	SURVEYED BY: A.F.	SHEET NO: 2
DATE DRAWN: 6-7-12	DRAWN BY: M.W.W.	
SCALE: 1" = 1000'	Date Last Revised:	

RECEIVED: July 19, 2012

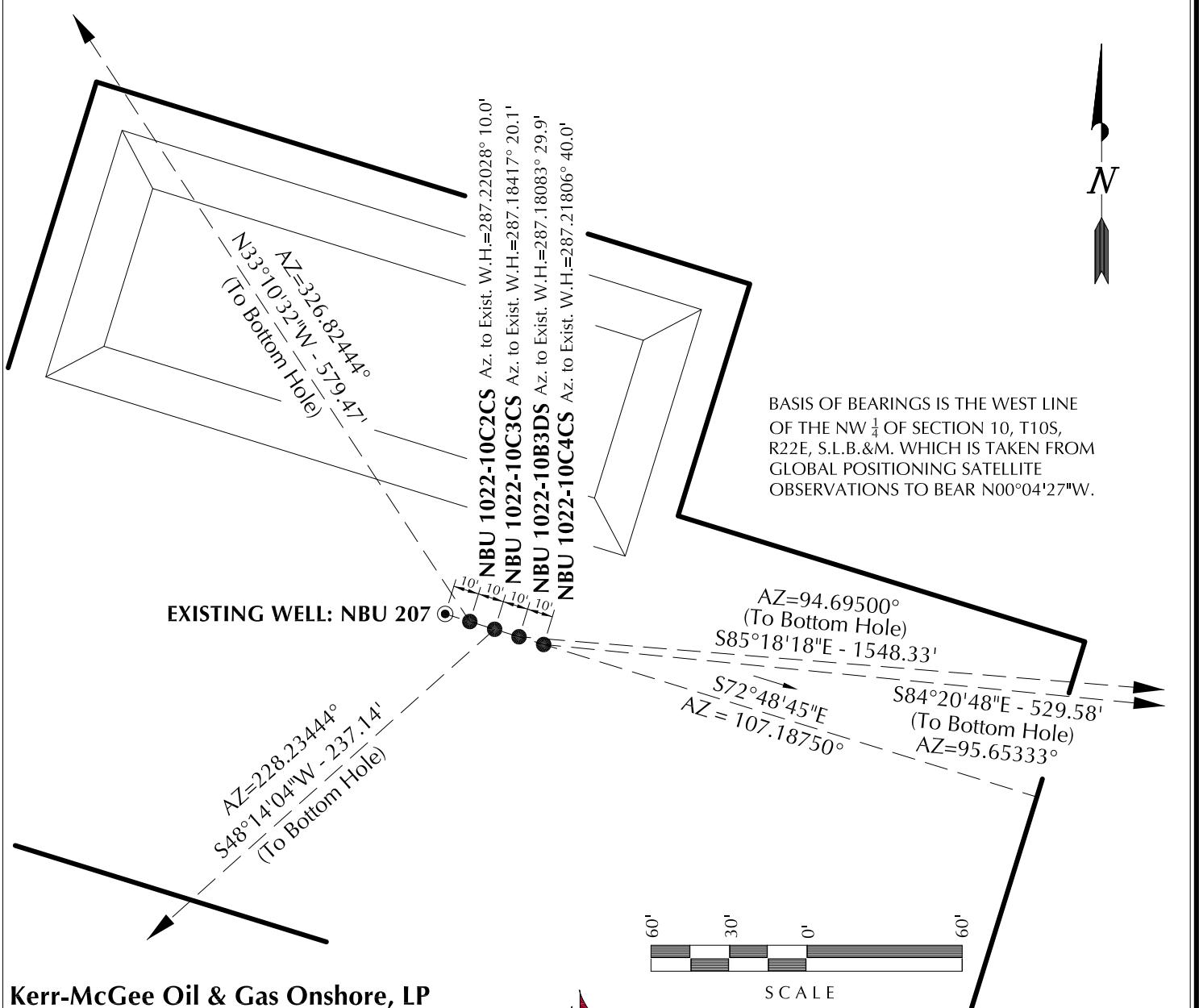
PROFESSIONAL LAND SURVEYOR
No.6028691
JOHN R.
LAUGH

REGISTRATION NO. 6028691
STATE OF UTAH

WELL NAME	SURFACE POSITION				FOOTAGES	BOTTOM HOLE				
	NAD83		NAD27			NAD83		NAD27		
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
NBU 1022-10C2CS	39°58'05.602"	109°25'45.559"	39°58'05.726"	109°25'43.102"	916' FNL	39°58'10.395"	109°25'49.628"	39°58'10.519"	109°25'47.171"	435' FNL 1379' FWL
NBU 1022-10C3CS	39.968223°	109.429322°	39.968257°	109.428639°	1695' FWL	39.969554°	109.430452°	39.969589°	109.429770°	
NBU 1022-10B3DS	39°58'05.572"	109°25'45.435"	39°58'05.696"	109°25'42.978"	919' FNL	39°58'04.012"	109°25'47.707"	39°58'04.136"	109°25'45.250"	1079' FNL 1528' FWL
NBU 1022-10C4CS	39.968215°	109.429288°	39.968249°	109.428605°	1705' FWL	39.967781°	109.429919°	39.967816°	109.429236°	
NBU 207	39°58'05.544"	109°25'45.314"	39°58'05.668"	109°25'42.857"	922' FNL	39°58'04.285"	109°25'25.500"	39°58'04.409"	109°25'23.044"	1038' FNL 1990' FEL
	39.968207°	109.429254°	39.968241°	109.428571°	1715' FWL	39.967857°	109.423750°	39.967891°	109.423068°	
	39°58'05.514"	109°25'45.191"	39°58'05.638"	109°25'42.734"	924' FNL	39°58'04.997"	109°25'38.425"	39°58'05.120"	109°25'35.968"	970' FNL
	39.968198°	109.429220°	39.968233°	109.428537°	1724' FWL	39.968055°	109.427340°	39.968089°	109.426658°	2251' FWL
	39°58'05.631"	109°25'45.681"	39°58'05.755"	109°25'43.224"	913' FNL					
	39.968231°	109.429356°	39.968265°	109.428673°	1686' FWL					

RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
NBU 1022-10C2CS	485.0'	-317.1'	NBU 1022-10C3CS	-158.0'	-176.9'	NBU 1022-10B3DS	-126.7'	1,543.1'	NBU 1022-10C4CS	-52.2'	527.0'



Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 1022-10C

WELL PAD INTERFERENCE PLAT

WELLS - NBU 1022-10C2CS, NBU 1022-10C3CS,
NBU 1022-10B3DS & NBU 1022-10C4CS
LOCATED IN SECTION 10, T10S, R22E,
S.L.B.&M., UNTAH COUNTY, UTAH.

609
CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

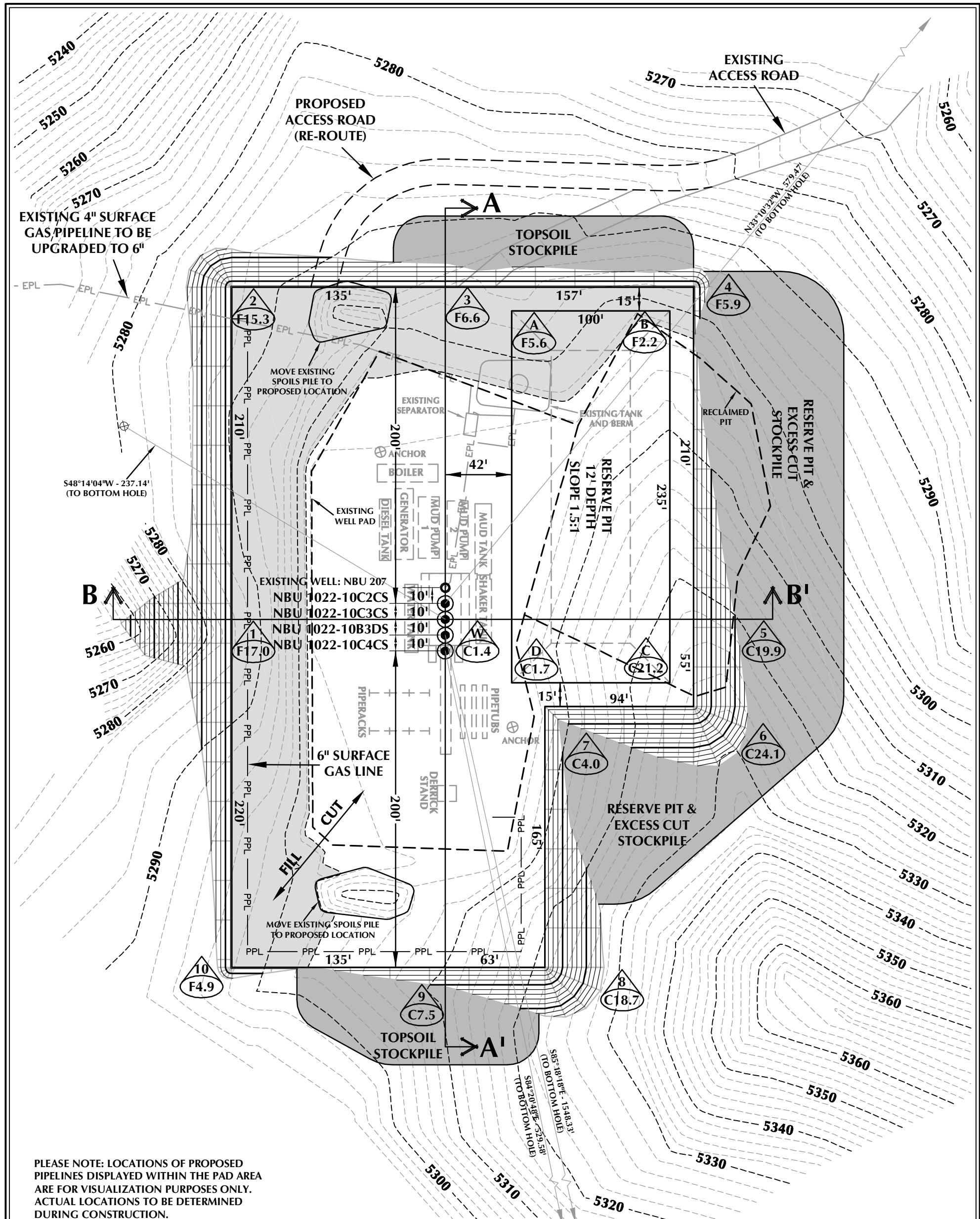
TIMBERLINE

ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

DATE SURVEYED: 6-4-12	SURVEYED BY: A.F.	SHEET NO:
DATE DRAWN: 6-7-12	DRAWN BY: M.W.W.	
SCALE: 1" = 60'	Date Last Revised:	5
		OF 16

RECEIVED: July 19, 2012



WELL PAD - NBU 1022-10C DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5304.0'
FINISHED GRADE ELEVATION = 5302.6'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 3.21 ACRES
TOTAL DISTURBANCE AREA = 4.25 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 14,848 C.Y.
TOTAL FILL FOR WELL PAD = 13,316 C.Y.
TOPSOIL @ 6" DEPTH = 1,831 C.Y.
EXCESS MATERIAL = 1,532 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT
+/- 7,960 C.Y.
RESERVE PIT CAPACITY (2' OF FREEBOARD)
+/- 30,260 BARRELS

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL PROPOSED PIPELINE
- EPL EXISTING PIPELINE



HORIZONTAL	0	30'	60'	1" = 60'
2' CONTOURS				
SCALE:	1"=60'	DATE:	6/12/12	SHEET NO:
REVISED:				6 OF 16

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

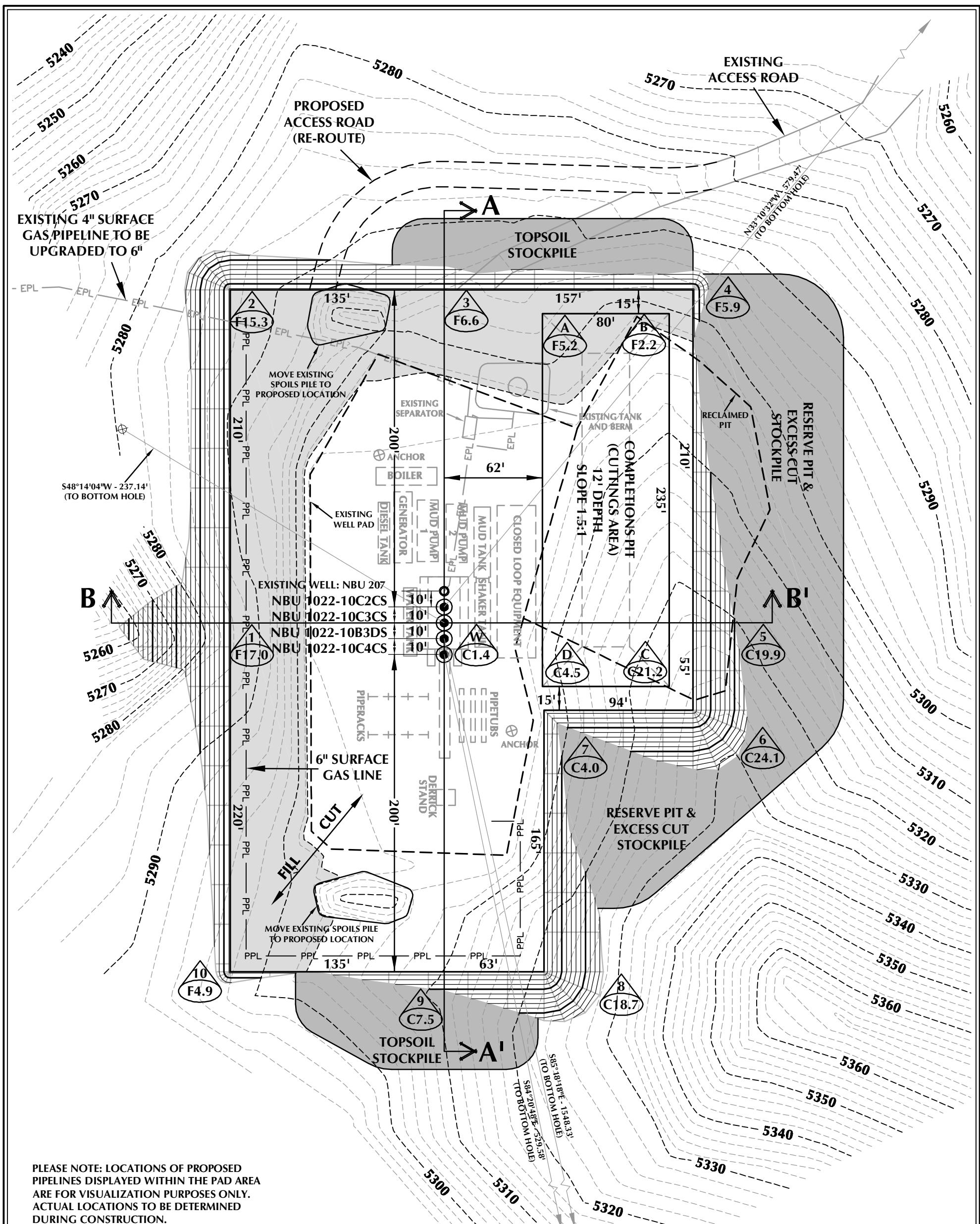
WELL PAD - NBU 1022-10C

WELL PAD - LOCATION LAYOUT
NBU 1022-10C2CS, NBU 1022-10C3CS,
NBU 1022-10B3DS & NBU 1022-10C4CS
LOCATED IN SECTION 10, T10S, R22E,
S.L.B.&M., UNTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

(435) 789-1365
TIMBERLINE
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078



PLEASE NOTE: LOCATIONS OF PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

WELL PAD - NBU 1022-10C (CLOSED LOOP) DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5304.0'
FINISHED GRADE ELEVATION = 5302.6'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 3.21 ACRES
TOTAL DISTURBANCE AREA = 4.25 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 14,848 C.Y.
TOTAL FILL FOR WELL PAD = 13,316 C.Y.
TOPSOIL @ 6" DEPTH = 1,831 C.Y.
EXCESS MATERIAL = 1,532 C.Y.

COMPLETIONS PIT QUANTITIES

TOTAL CUT FOR COMPLETIONS PIT
+/- 6,030 C.Y.
COMPLETIONS PIT CAPACITY
(2' OF FREEBOARD)
+/- 22,630 BARRELS

WELL PAD LEGEND

- EXISTING WELL LOCATION
- ✖ PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL PROPOSED PIPELINE
- EPL EXISTING PIPELINE



HORIZONTAL 0 30' 60' 1" = 60'

2' CONTOURS

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 1022-10C

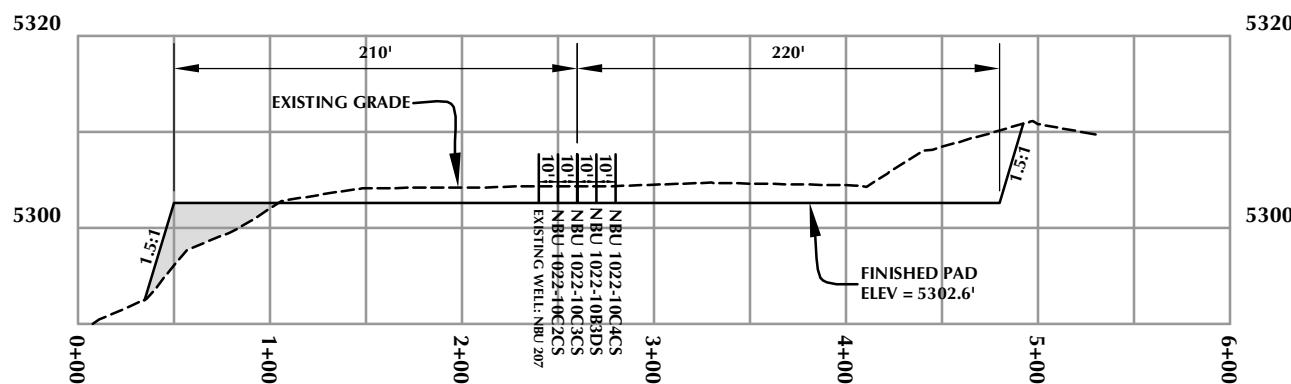
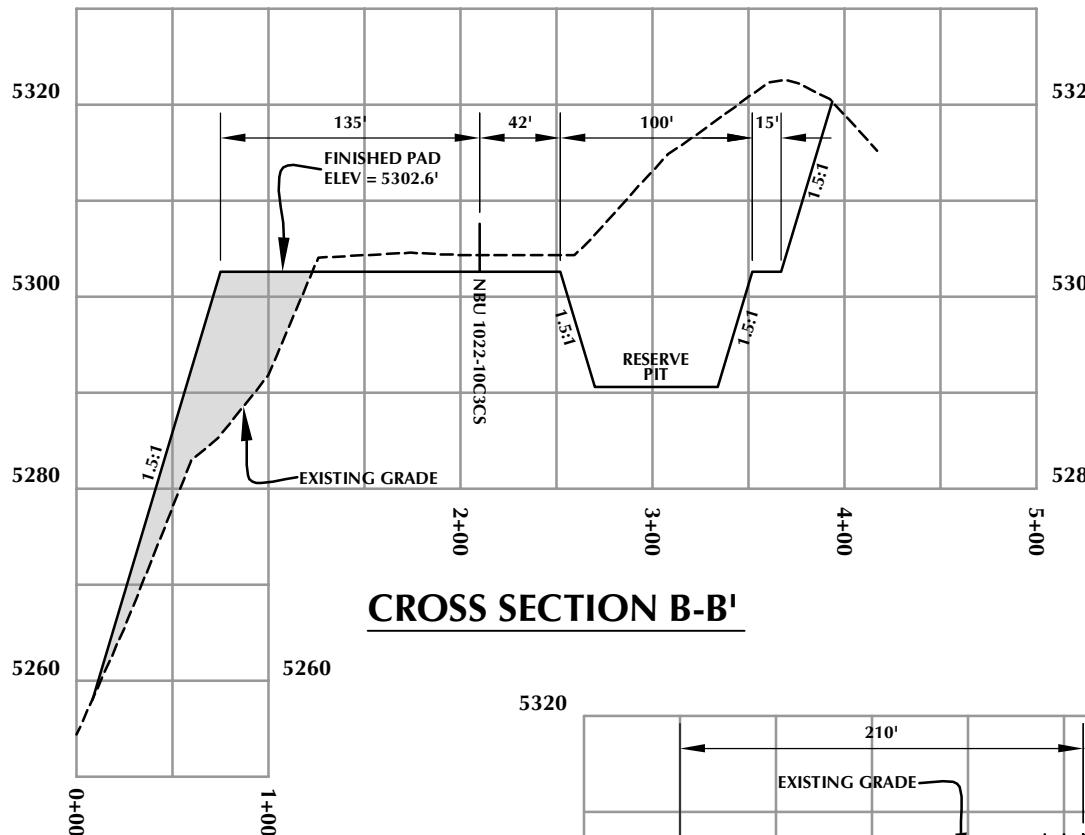
WELL PAD - LOCATION LAYOUT
NBU 1022-10C2CS, NBU 1022-10C3CS,
NBU 1022-10B3DS & NBU 1022-10C4CS
LOCATED IN SECTION 10, T10S, R22E,
S.L.B.&M., UNTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078
(435) 789-1365

SCALE: 1"=60'	DATE: 6/12/12	SHEET NO:
REVISED:	6B 6B OF 16	

**CROSS SECTION A-A'****WELL PAD - NBU 1022-10C**

WELL PAD - CROSS SECTIONS
NBU 1022-10C2CS, NBU 1022-10C3CS,
NBU 1022-10B3DS & NBU 1022-10C4CS
LOCATED IN SECTION 10, T10S, R22E,
S.L.B.&M., UNTAH COUNTY, UTAH

Kerr-McGee Oil &
Gas Onshore L.P.
1099 18th Street
Denver, Colorado 80202



609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

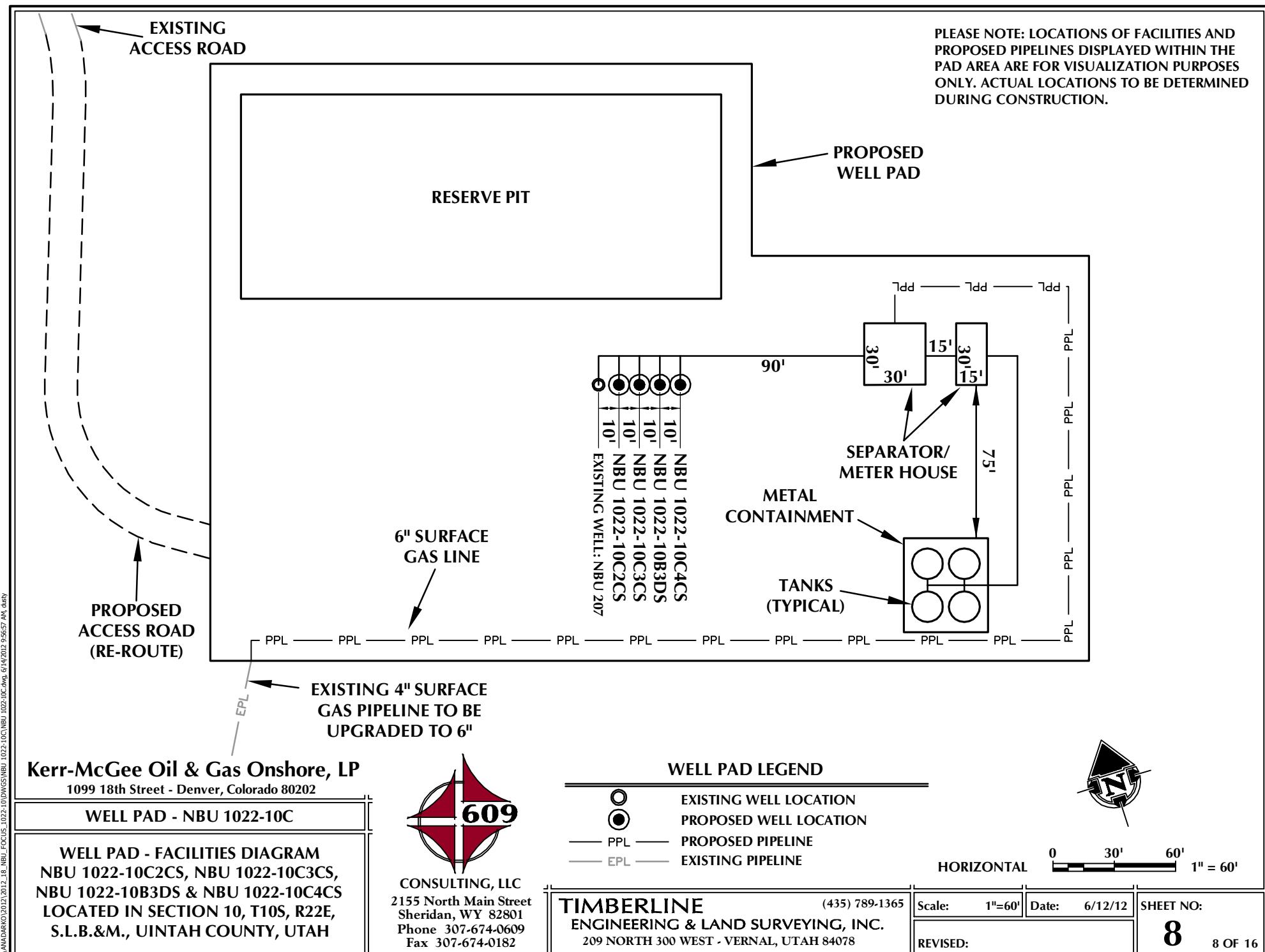
HORIZONTAL 0 30' 60' 1" = 60'
VERTICAL 0 10' 20' 1" = 20'

Scale: 1"=60' Date: 6/12/12

SHEET NO:

7

7 OF 16



RECEIVED: July 19, 2012

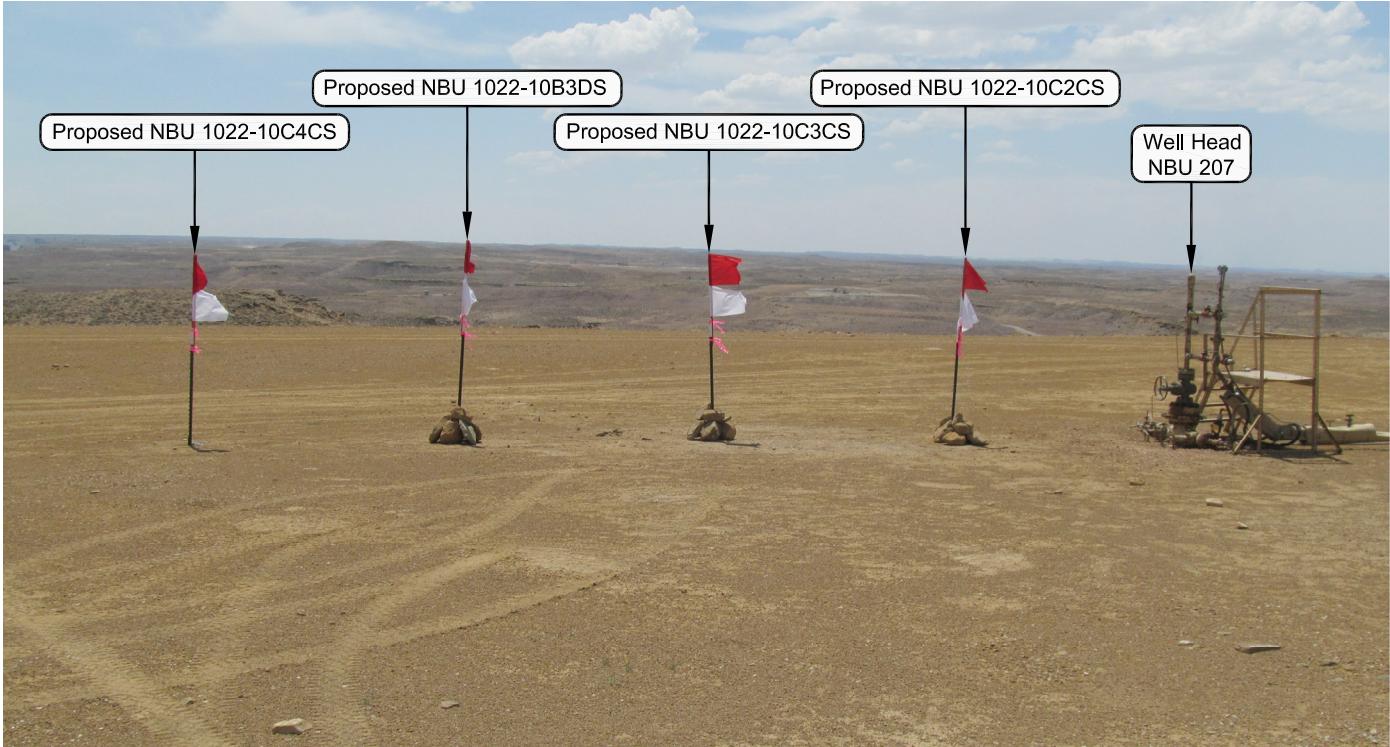


PHOTO VIEW: FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHWESTERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: SOUTHWESTERLY

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 1022-10C

LOCATION PHOTOS

NBU 1022-10C2CS, NBU 1022-10C3CS,
NBU 1022-10B3DS & NBU 1022-10C4CS
LOCATED IN SECTION 10, T10S, R22E,
S.L.B.&M., UNTAH COUNTY, UTAH.



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Sheridan WY 82801
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TIMBERLINE

(435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN:
6-4-12

PHOTOS TAKEN BY: A.F.

SHEET NO.:

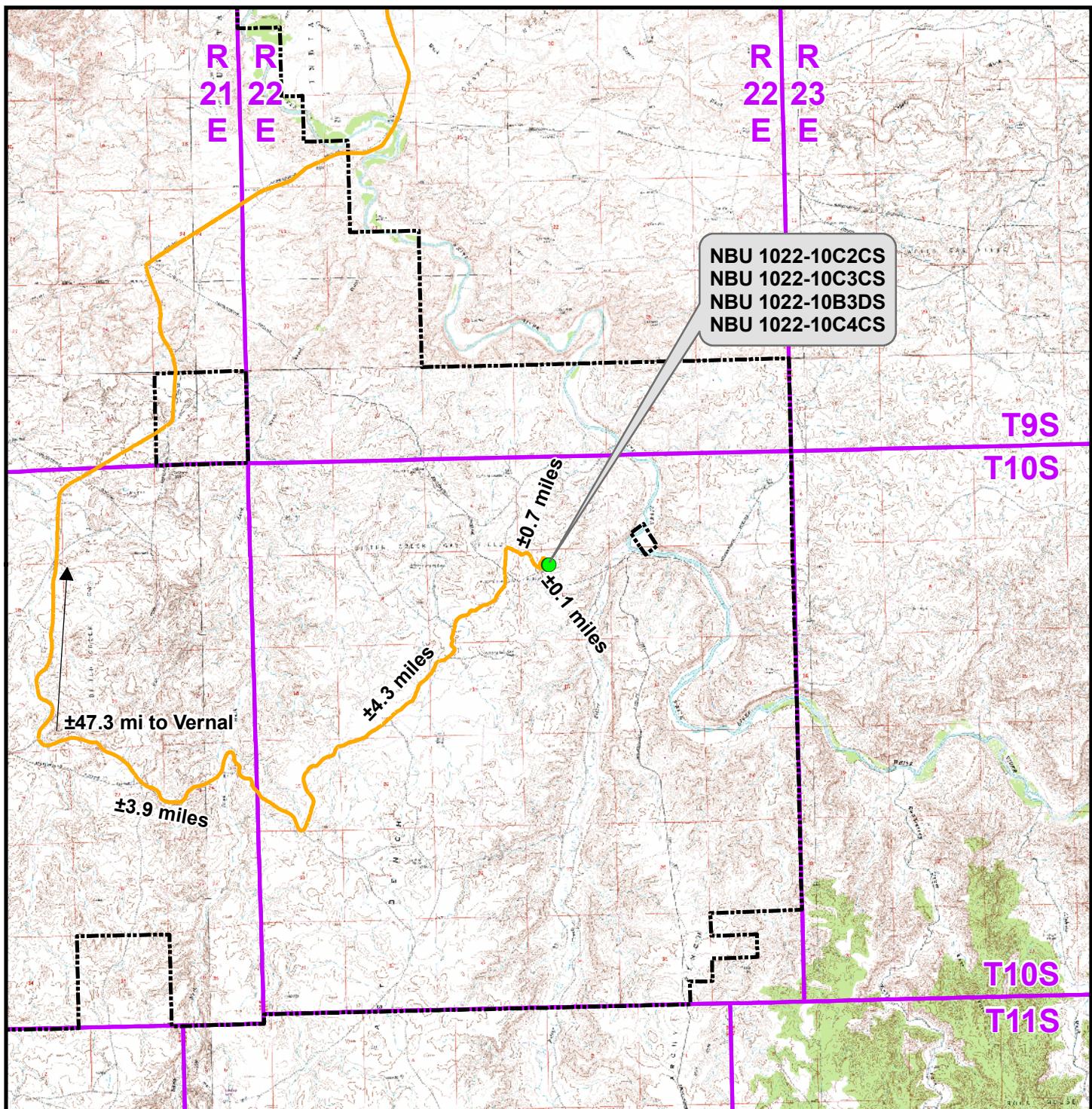
DATE DRAWN:
6-7-12

DRAWN BY: M.W.W.

Date Last Revised:

9

9 OF 16

**Legend**

- Proposed Well Location
- Natural Buttes Unit Boundary
- Access Route - Proposed

Distance From Well Pad - NBU 1022-10C To Unit Boundary: ±5,045ft

WELL PAD - NBU 1022-10C	
TOPO A	
NBU 1022-10C2CS, NBU 1022-10C3CS, NBU 1022-10B3DS & NBU 1022-10C4CS LOCATED IN SECTION 10, T10S, R22E, S.L.B.&M., UNTAH COUNTY, UTAH	Kerr-McGee Oil & Gas Onshore L.P. 1099 18th Street Denver, Colorado 80202

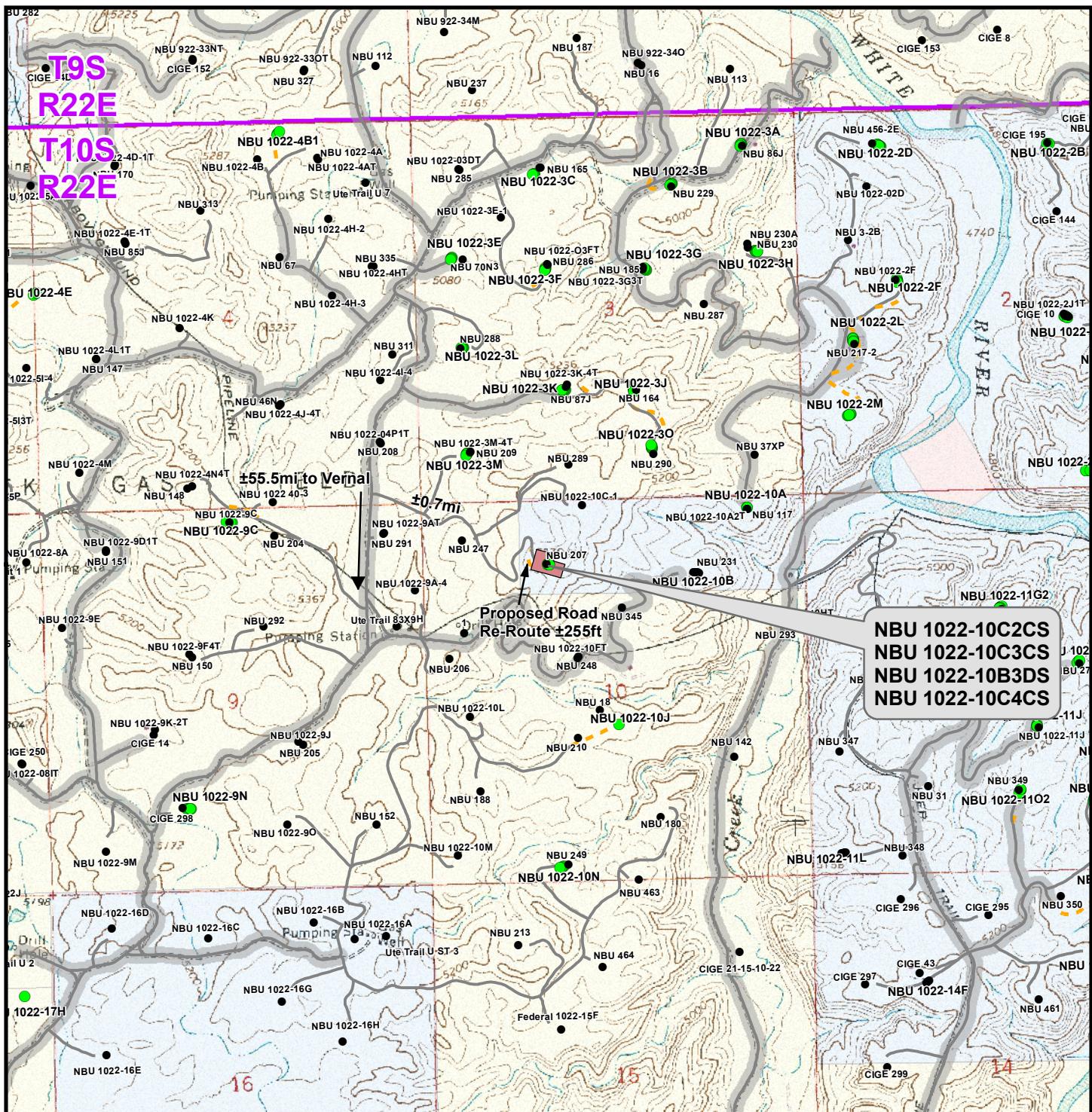
**Kerr-McGee Oil &
Gas Onshore L.P.**
1099 18th Street
Denver, Colorado 80202



CONSULTING, LLC
2155 North Main Street
Sheridan, Wyoming 82801
Phone 307-674-0609
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SCALE: 1:100,000	NAD83 USP Central	SHEET NO:
DRAWN: TL	DATE: 12 June 2012	10
REVISED:	DATE:	10 OF 16

**Legend**

Total Proposed Road Re-Route Length: ±255ft

- Well - Proposed ■ Well Pad - - - Road - Proposed ⬤ County Road ☺ Bureau of Land Management ☔ State
- Well - Existing — Road - Existing ☺ Indian Reservation ☐ Private

WELL PAD - NBU 1022-10C

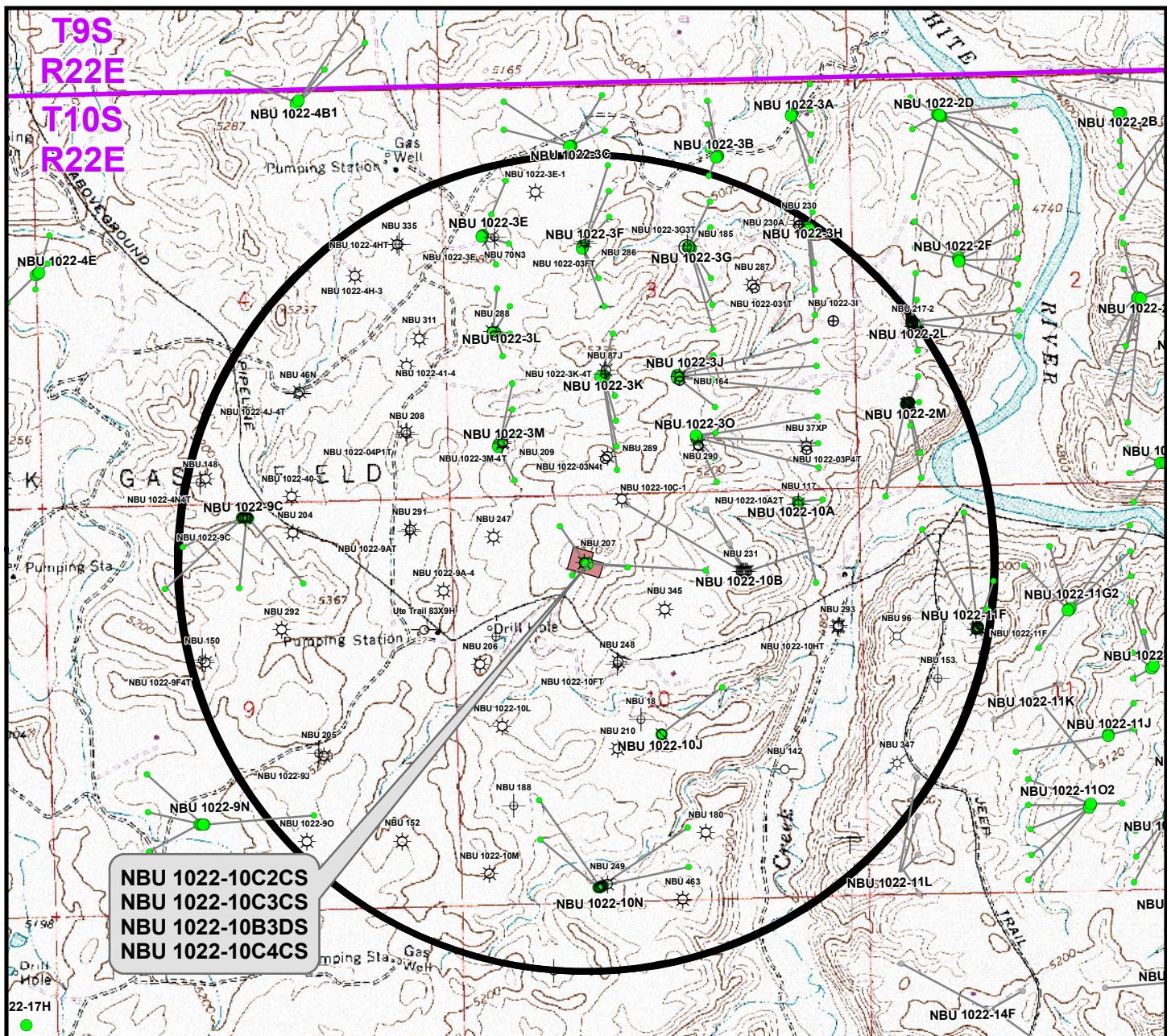
TOPO B
**NBU 1022-10C2CS, NBU 1022-10C3CS,
NBU 1022-10B3DS & NBU 1022-10C4CS**
**LOCATED IN SECTION 10, T10S, R22E,
S.L.B.&M., UNTAH COUNTY, UTAH**

**Kerr-McGee Oil &
Gas Onshore L.P.**
**1099 18th Street
Denver, Colorado 80202**



CONSULTING, LLC
 2155 North Main Street
 Sheridan, Wyoming 82801
 Phone 307-674-0609
 Fax 307-674-0182

SCALE: 1" = 2,000ft	NAD83 USP Central	SHEET NO:
DRAWN: TL	DATE: 12 June 2012	11
REVISED:	DATE:	11 OF 16



Well locations derived from Utah Division of Oil, Gas and Mining (UDOGM) (oilgas.ogm.utah.gov). The estimated distances from proposed bore locations to the nearest existing bore locations are based on UDOGM data.

Proposed Well	Nearest Well Bore	Footage
NBU 1022-10C2CS	NBU 207	572ft
NBU 1022-10C3CS	NBU 207	227ft
NBU 1022-10B3DS	NBU 231	448ft
NBU 1022-10C4CS	NBU 207	569ft

Legend

- | | | | | | |
|--------------------------|------------------------|------------------------|-------------------------|----------------------|-----------------------|
| ● Well - Proposed | — Well Path | ● Producing | ⊕ Deferred | ● Active Injector | ○ Plugged & Abandoned |
| ● Bottom Hole - Proposed | ■ Well Pad | ● Spudded | ✗ Cancelled | ● Location Abandoned | ○ Shut-In |
| ● Bottom Hole - Existing | ■ Well - 1 Mile Radius | ○ APD Approved | ○ Temporarily Abandoned | | |
| | | ● Preliminary Location | | | |

WELL PAD - NBU 1022-10C

TOPO C
NBU 1022-10C2CS, NBU 1022-10C3CS,
NBU 1022-10B3DS & NBU 1022-10C4CS
LOCATED IN SECTION 10, T10S, R22E,
S.L.B.&M., UNTAH COUNTY, UTAH

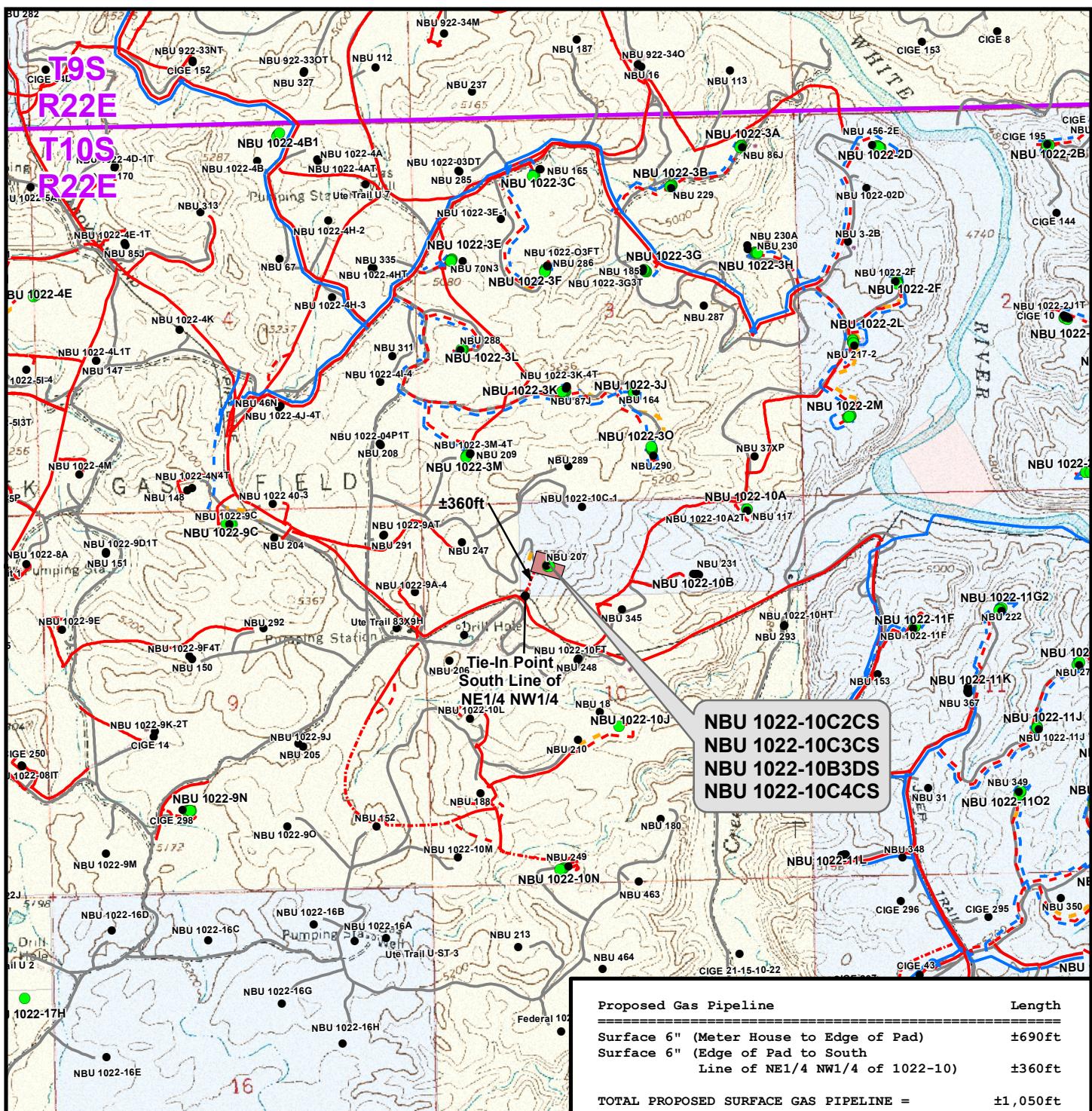
**Kerr-McGee Oil &
Gas Onshore L.P.**
1099 18th Street
Denver, Colorado 80202



CONSULTING, LLC
2155 North Main Street
Sheridan, Wyoming 82801
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SCALE: 1" = 2,000ft	NAD83 USP Central	SHEET NO:
DRAWN: TL	DATE: 12 June 2012	12
REVISED:	DATE:	12 OF 16

**Legend**

- Well - Proposed - - - Gas Pipeline - Proposed - - - Liquid Pipeline - Proposed - - - Road - Proposed ■ Bureau of Land Management ■ State
- Well - Existing - - - Gas Pipeline - To Be Upgraded - - - Liquid Pipeline - Existing - - - Road - Existing ■ Indian Reservation ■ Private
- Well Pad - - - Gas Pipeline - Existing

WELL PAD - NBU 1022-10C

TOPO D
**NBU 1022-10C2CS, NBU 1022-10C3CS,
NBU 1022-10B3DS & NBU 1022-10C4CS
LOCATED IN SECTION 10, T10S, R22E,
S.L.B.&M., UNTAH COUNTY, UTAH**

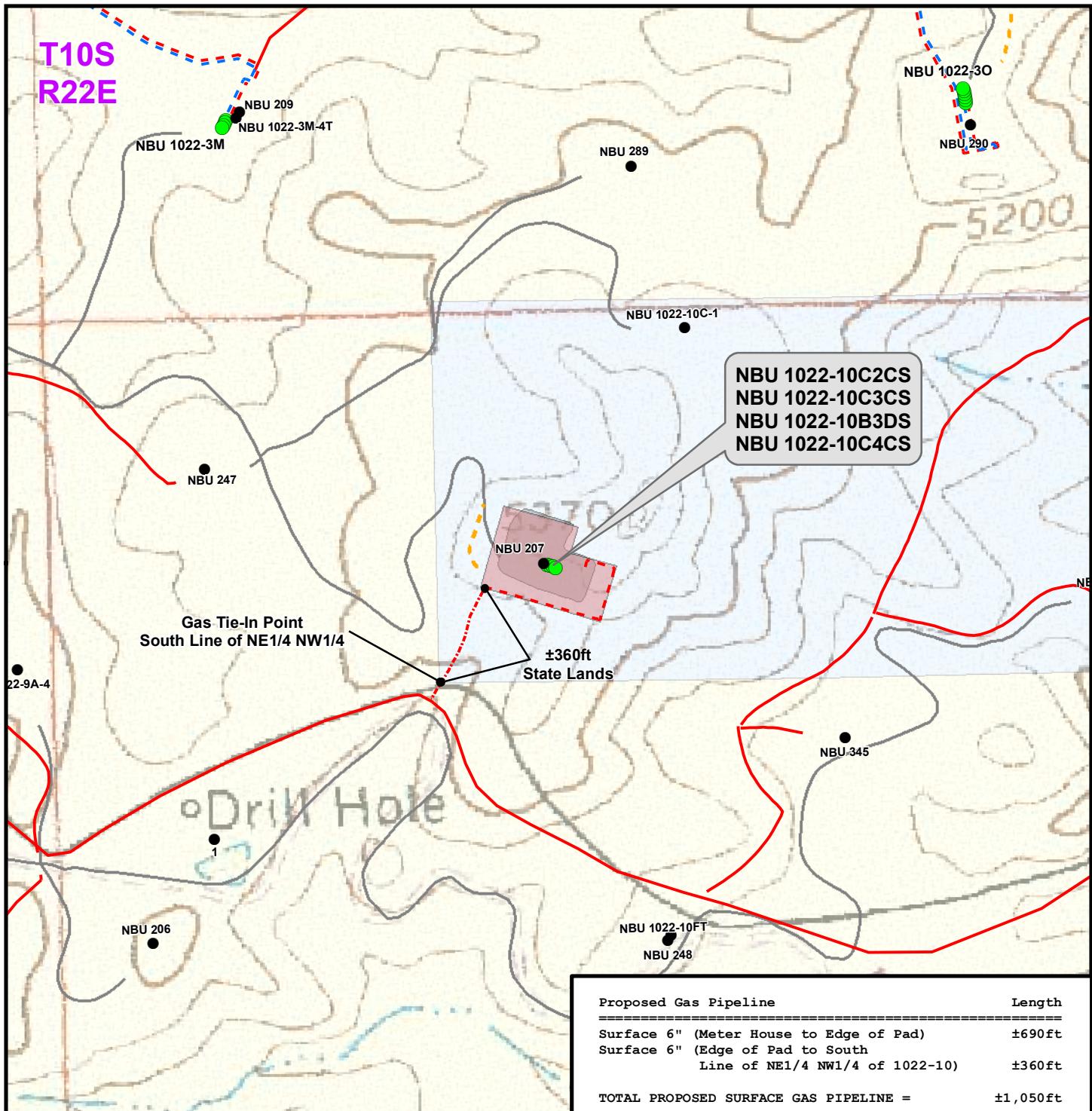
**Kerr-McGee Oil &
Gas Onshore L.P.**
**1099 18th Street
Denver, Colorado 80202**



CONSULTING, LLC
2155 North Main Street
Sheridan, Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182



SCALE: 1" = 2,000ft	NAD83 USP Central	SHEET NO:
DRAWN: TL	DATE: 12 June 2012	13
REVISED:	DATE:	13 OF 16

**Legend**

Well - Proposed	Well Pad - Proposed	Gas Pipeline - Proposed	Liquid Pipeline - Proposed	Road - Proposed	Bureau of Land Management
Well - Existing	Well Pad - Existing	Gas Pipeline - To Be Upgraded	Liquid Pipeline - Existing	Road - Existing	Indian Reservation
					State
					Private

WELL PAD - NBU 1022-10C

TOPO D2 (PAD & PIPELINE DETAIL)
NBU 1022-10C2CS, NBU 1022-10C3CS,
NBU 1022-10B3DS & NBU 1022-10C4CS
LOCATED IN SECTION 10, T10S, R22E,
S.L.B.&M., UNTAH COUNTY, UTAH

Kerr-McGee Oil & Gas Onshore L.P.
1099 18th Street
Denver, Colorado 80202



CONSULTING, LLC
2155 North Main Street
Sheridan, Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182



SCALE: 1" = 500ft

DRAWN: TL

REVISED:

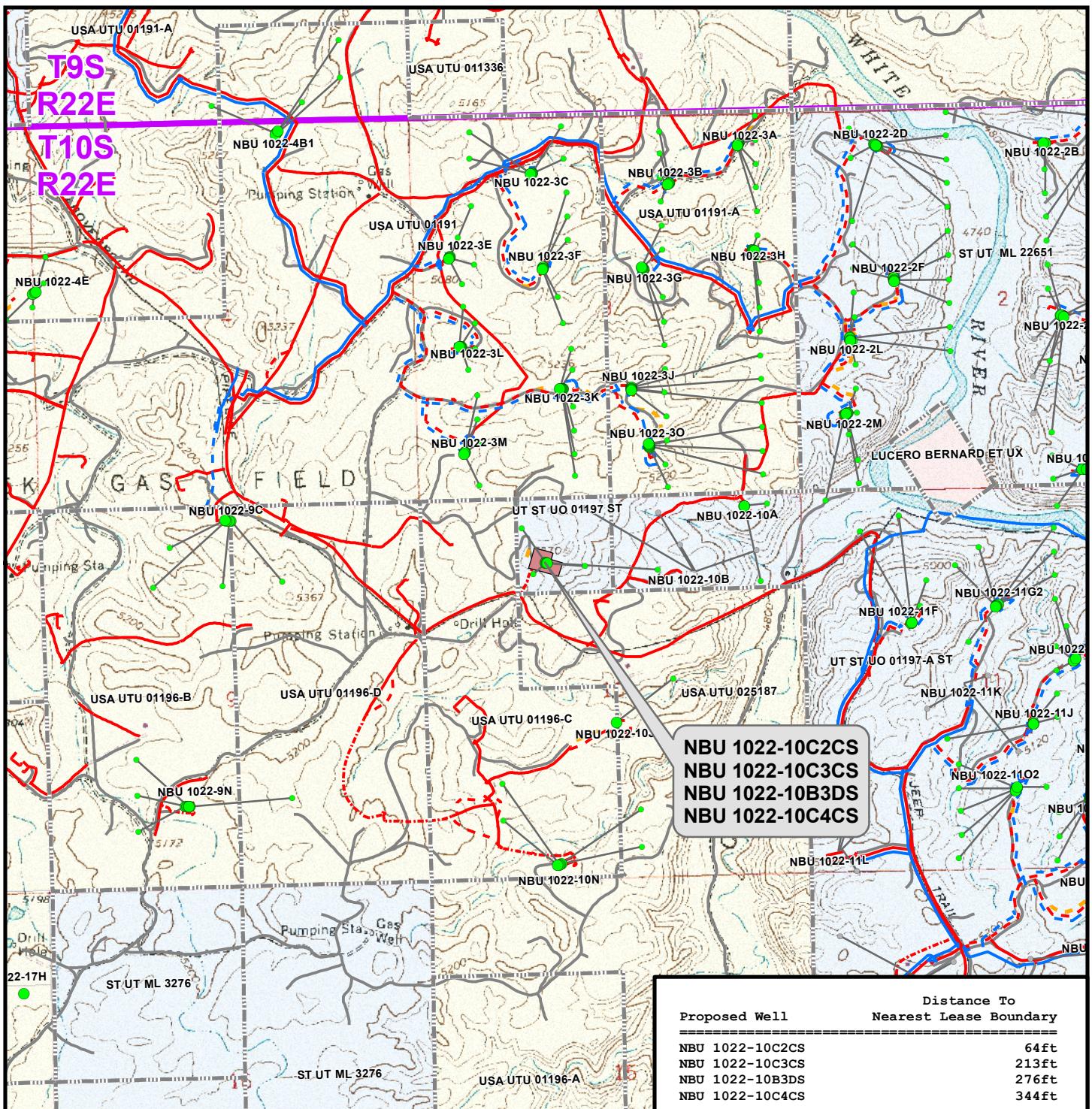
NAD83 USP Central

DATE: 12 June 2012

DATE:

SHEET NO:
14

14 OF 16

**Legend**

- Well - Proposed Well Pad
- Bottom Hole - Proposed Lease Boundary
- Bottom Hole - Existing — Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded — Liquid Pipeline - Proposed
- Gas Pipeline - Existing — Liquid Pipeline - Existing
- Gas Pipeline - Existing — Road - Proposed
- Well Path — Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

WELL PAD - NBU 1022-10C

TOPO E
NBU 1022-10C2CS, NBU 1022-10C3CS,
NBU 1022-10B3DS & NBU 1022-10C4CS
LOCATED IN SECTION 10, T10S, R22E,
S.L.B.&M., UNTAH COUNTY, UTAH

**Kerr-McGee Oil &
Gas Onshore L.P.**
1099 18th Street
Denver, Colorado 80202



CONSULTING, LLC
 2155 North Main Street
 Sheridan, Wyoming 82801
 Phone 307-674-0609
 Fax 307-674-0182



SCALE: 1" = 2,000ft

DRAWN: TL

REVISED:

NAD83 USP Central

DATE: 12 June 2012

DATE:

15

15 OF 16

**Kerr-McGee Oil & Gas Onshore, LP
WELL PAD - NBU 1022-10C
WELLS – NBU 1022-10C2CS, NBU 1022-10C3CS,
NBU 1022-10B3DS & NBU 1022-10C4CS
Section 10, T10S, R22E, S.L.B.&M.**

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 23.8 miles to the intersection of the Bitter Creek Road (County B Road 4120). Exit left and proceed in a southeasterly direction along the Bitter Creek Road approximately 3.9 miles to a Class D County Road to the northeast. Exit left and proceed in a northeasterly direction along the Class D County Road approximately 4.3 miles to a service road to the southeast. Exit right and proceed in a southeasterly direction along the service road approximately 0.7 miles to the proposed access road to the southwest. Follow road flags in a southwesterly, then southeasterly direction approximately 255 feet to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 56.3 miles in a southerly direction.



WELL DETAILS: NBU 1022-10C3CS

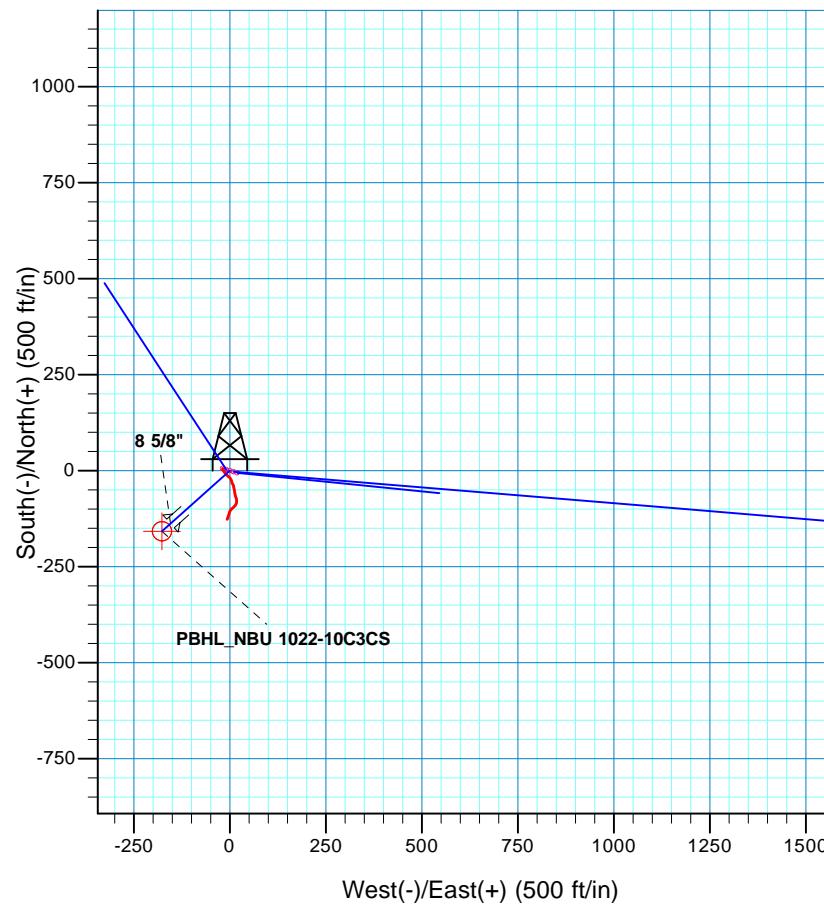
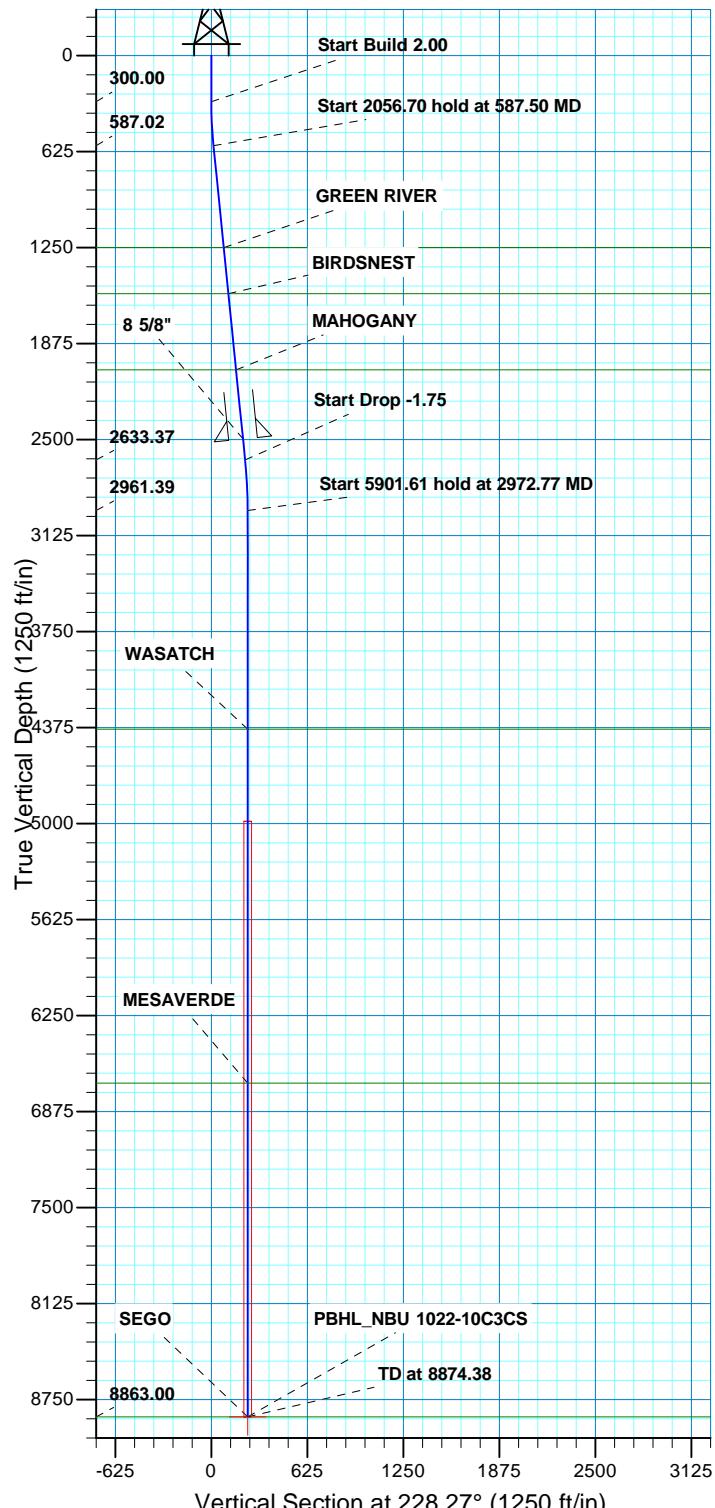
GL 5303 & KB 4 @ 5307.00ft (ASSUMED)

+N/S 0.00	+E/W 0.00	Northing 14518361.77	Easting 2080712.41	Latitude 39.968249	Longitude -109.428605
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DESIGN TARGET DETAILS

Name PBHL	TVD 8863.00	+N/S -157.70	+E/W -176.84	Northing 14518200.97	Easting 2080538.37	Latitude 39.967816	Longitude -109.429236	Shape Circle (Radius: 25.00)
- plan hits target center								

T Azimuths to True North
 M Magnetic North: 10.90°
 Magnetic Field Strength: 52212.9nT
 Dip Angle: 65.83°
 Date: 07/09/2012
 Model: IGRF2010



SECTION DETAILS								
MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00
587.50	5.75	228.27	587.02	-9.59	-10.76	2.00	228.27	14.41
2644.20	5.75	228.27	2633.37	-146.74	-164.54	0.00	0.00	220.47
2972.77	0.00	0.00	2961.39	-157.70	-176.84	1.75	180.00	236.94
8874.38	0.00	0.00	8863.00	-157.70	-176.84	0.00	0.00	236.94
PBHL_NBU 1022-10C3CS								

PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N			FORMATION TOP DETAILS		
Geodetic System: Universal Transverse Mercator (US Survey Feet)			TVDPath		
Datum: NAD 1927 (NADCON CONUS)			MDPath		
Ellipsoid: Clarke 1866			Formation		
Zone: Zone 12N (114 W to 108 W)			GREEN RIVER		
Location: SECTION 10 T10S R22E			BIRDSNEST		
System Datum: Mean Sea Level			MAHOGANY		
			WASATCH		
			MESAVERDE		
			SEGO		

CASING DETAILS				
TVD	MD	Name	Size	
2497.00	2507.14	8 5/8"	8.625	

RECEIV	Plan: PLAN #1 PERMIT (NBU 1022-10C3CS/OH)
	Created By: Gabe Kendall Date: 9:26, July 09 2012



Scientific Drilling

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N

NBU 1022-10C PAD

NBU 1022-10C3CS

OH

Plan: PLAN #1 PERMIT

Standard Planning Report

09 July, 2012





Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well NBU 1022-10C3CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5303 & KB 4 @ 5307.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5303 & KB 4 @ 5307.00ft (ASSUMED)
Site:	UTAH - UTM (feet), NAD27, Zone 12N	North Reference:	True
Well:	NBU 1022-10C PAD	Survey Calculation Method:	Minimum Curvature
Wellbore:	NBU 1022-10C3CS		
Design:	OH		
PLAN #1 PERMIT			

Project	UTAH - UTM (feet), NAD27, Zone 12N		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 1022-10C PAD, SECTION 10 T10S R22E				
Site Position:		Northing:	14,518,364.52 usft	Latitude:	39.968257
From:	Lat/Long	Easting:	2,080,702.83 usft	Longitude:	-109.428639
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	1.01 °

Well	NBU 1022-10C3CS, 919 FNL 1705 FWL				
Well Position	+N/S +E/W	-2.91 ft 9.53 ft	Northing: Easting:	14,518,361.77 usft 2,080,712.40 usft	Latitude: Longitude:
Position Uncertainty	0.00 ft		Wellhead Elevation:		Ground Level:
					5,303.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	07/09/12	10.90	65.83	52,213

Design	PLAN #1 PERMIT									
Audit Notes:										
Version: Phase: PLAN Tie On Depth: 0.00										
Vertical Section:	Depth From (TVD) (ft)	+N/S (ft)	+E/W (ft)	Direction (°)						
	0.00	0.00	0.00	228.27						

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/S (ft)	+E/W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
587.50	5.75	228.27	587.02	-9.59	-10.76	2.00	2.00	0.00	228.27	
2,644.20	5.75	228.27	2,633.37	-146.74	-164.54	0.00	0.00	0.00	0.00	
2,972.77	0.00	0.00	2,961.39	-157.70	-176.84	1.75	-1.75	0.00	180.00	
8,874.38	0.00	0.00	8,863.00	-157.70	-176.84	0.00	0.00	0.00	0.00	PBHL_NBU 1022-10C


SDI
Planning Report


Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well NBU 1022-10C3CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5303 & KB 4 @ 5307.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5303 & KB 4 @ 5307.00ft (ASSUMED)
Site:	NBU 1022-10C PAD	North Reference:	True
Well:	NBU 1022-10C3CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PERMIT		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/S (ft)	+E/W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
8,800.00	0.00	0.00	8,788.62	-157.70	-176.84	236.94	0.00	0.00	0.00	
8,874.38	0.00	0.00	8,863.00	-157.70	-176.84	236.94	0.00	0.00	0.00	
SEGO - PBHL_NBU 1022-10C3CS										

Design Targets										
Target Name		Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/S (ft)	+E/W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target	- Shape									
- plan hits target center		0.00	0.00	8,863.00	-157.70	-176.84	14,518,200.98	2,080,538.37	39.967816	-109.429236
- Circle (radius 25.00)										

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name			Casing Diameter (in)	Hole Diameter (in)
2,507.14	2,497.00	8 5/8"			8.625	11.000

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,254.84	1,251.00	GREEN RIVER			
1,556.36	1,551.00	BIRDSNEST			
2,054.87	2,047.00	MAHOGANY			
4,397.38	4,386.00	WASATCH			
6,701.38	6,690.00	MESAVERDE			
8,874.38	8,863.00	SEGO			

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/S (ft)	+E/W (ft)		
300.00	300.00	0.00	0.00	Start Build 2.00	
587.50	587.02	-9.59	-10.76	Start 2056.70 hold at 587.50 MD	
2,644.20	2,633.37	-146.74	-164.54	Start Drop -1.75	
2,972.77	2,961.39	-157.70	-176.84	Start 5901.61 hold at 2972.77 MD	
8,874.38	8,863.00	-157.70	-176.84	TD at 8874.38	

NBU 1022-10B3DS

Surface:	922 FNL / 1715 FWL	NENW	Lot
BHL:	1038 FNL / 1990 FEL	NWNE	Lot

NBU 1022-10C2CS

Surface:	916 FNL / 1695 FWL	NENW	Lot
BHL:	435 FNL / 1379 FWL	NENW	Lot

NBU 1022-10C3CS

Surface:	919 FNL / 1705 FWL	NENW	Lot
BHL:	1079 FNL / 1528 FWL	NENW	Lot

NBU 1022-10C4CS

Surface:	924 FNL / 1724 FWL	NENW	Lot
BHL:	970 FNL / 2251 FWL	NENW	Lot

Pad: NBU 1022-10C PAD

Section 10 T10S R22E

Mineral Lease: UO 01197

Uintah County, Utah

Operator: Kerr-McGee Oil & Gas Onshore LP

This SUPO contains surface operating procedures for Kerr-McGee Oil & Gas Onshore LP (KMG), a wholly owned subsidiary of Anadarko Petroleum Corporation (APC) pertaining to actions that involve the State of Utah School and Institutional Trust Lands Administration (SITLA) in the development of minerals leased to APC/KMG (including but not limited to, APDs/SULAs/ROEs/ROWS and/or easements.)

See associated Utah Division of Oil, Gas, and Mining (UDOGM) Form 3(s), plats, maps, and other attachments for site-specific information on projects represented herein.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

A. Existing Roads:

Existing roads consist of county and improved/unimproved lease roads. KMG will maintain existing roads in a condition that is the same as or better than before operations began and in a safe and usable condition.

Maintenance of existing roads will continue until final abandonment and reclamation of well pads and/or other facilities. The road maintenance may include, but is not limited to, blading, ditching, culvert installation/cleanout, surfacing, and dust control.

Typically, roads, gathering lines and electrical distribution lines will occupy common disturbance corridors and roadways will be used as working space. All disturbances located in the same corridor will overlap each other to the maximum extent possible; in no case will the maximum disturbance width of the access road and utility corridors exceed 50', unless otherwise approved.

B. Planned Access Roads:

Approximately $\pm 255'$ (0.05 miles) of road re-route is proposed (see Topo Map B). Applicable Uintah County encroachment and/or pipeline crossing permits will be obtained prior to construction/development. No other pipelines will be crossed at this location.

If there are roads that are new or to be reconstructed, they will be located, designed, and maintained to meet the standards of SITLA and other commonly accepted Best Management Practices (BMPs). If a new road/corridor were to cross a water of the United States, KMG will adhere to the requirements of applicable Nationwide or Individual Permits of the Department of Army Corps of Engineers.

During the onsite, turnouts, major cut and fills, culverts, bridges, gates, cattle guards, low water crossings, or modifications needed to existing infrastructure/facilities were determined, as applicable, are typically shown on attached Exhibits and Topo maps.

C. Location of Existing and Proposed Facilities:

This pad will expand the existing pad for the NBU 207, which is a producing well according to Utah Division of Oil, Gas and Mining (UDOGM) records as of July 18, 2012.

Production facilities (see Well Pad Design Summary and Facilities Diagram):

Production facilities will be installed on the disturbed portion of the well pad and may include bermed components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will be constructed of compacted subsoil or corrugated metal, impervious, designed to hold 110% of the capacity of the largest tank, and be independent of the back cut. All permanent (on-site six months or longer) above ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with SITLA.

Gathering Facilities:

The following pipeline transmission facilities will apply if the well is productive (see Topo D):

The total gas gathering (steel line pipe with fusion bond epoxy coating) pipeline distances from the meter to the tie in point is $\pm 1,050'$ and the individual segments are broken up as follows:

- $\pm 690'$ (0.1 miles) –New 6" surface gas pipeline from the meter to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.
- $\pm 360'$ (0.07 miles) –New 6" surface gas pipeline from the edge of the pad to the South Line of NE/4 NW/4 of 1022-10. Please refer to Topo D2 - Pad and Pipeline Detail.

Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. KMG requests a permanent 30' right-of-way adjacent to the road for life-of-project for maintenance, repairs, and/or upgrades, no additional right-of-way will be needed beyond the 30'. Where the pipeline is not adjacent to the road or well pad, KMG requests a temporary 45' construction right-of-way 30' permanent right-of-way.

The proposed trench width for the pipeline would range from 18-48 inches and will be excavated to a depth of 48 to 60 inches of normal soil cover or 24 inches of cover in consolidated rock. During construction blasting may occur along the proposed right-of-way where trenching equipment cannot cut into the bedrock. Large debris and rocks removed from the earth during trenching and blasting that could not be returned to the trench would be distributed evenly and naturally in the project area. The proposed pipelines will be pressure tested pneumatically (depending on size) or with fluids (either fresh or produced). If fluids are used, there will be no discharge to the surface.

Pipeline signs will be installed along the right-of-way to indicate the pipeline proximity and ownership, as well as to provide emergency contact phone numbers. Above ground valves, T's, and/or cathodic protection will be installed at various locations for connection, corrosion prevention and/or for safety purposes.

D. Location and Type of Water Supply:

Water for drilling purposes will be obtained from one of the following sources:

- Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, application number 53617.
- Price Water Pumping Inc. Green River and White River, various sources, Water Right Number 49-1659, application number: a35745.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

E. Source of Construction Materials:

Construction operations will typically be completed with native materials found on location. If needed, construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source and described in subsequent Sundry requests. No construction materials will be removed from State lands without prior approval from SITLA.

F. Methods for Handling Waste Materials:

Should the well be productive, produced water will be contained in a water tank and will be transported by pipeline and/or truck to an approved disposal sites facilities and/or Salt Water Disposal (SWD) injection well. Currently, those facilities are:

RNI in Sec. 5 T9S R22E
Ace Oilfield in Sec. 2 T6S R20E
MC&MC in Sec. 12 T6S R19E
Pipeline Facility in Sec. 36 T9S R20E
Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E
Bonanza Evaporation Pond in Sec. 2 T10S R23E
Ouray #1 SWD in Sec. 1 T9S R21E
NBU 159 SWD in Sec. 35 T9S R21E
CIGE 112D SWD in Sec. 19 T9S R21E
CIGE 114 SWD in Sec. 34 T9S R21E
NBU 921-34K SWD in Sec. 34 T9S R21E
NBU 921-33F SWD in Sec. 33 T9S R21E
NBU 921-34L SWD in Sec. 34 T9S R21E

Kerr-McGee will use either a closed loop drilling system that will require one pit and one cuttings storage area to be constructed on the drilling pad or a traditional drilling operation with one pit used for drilling and completion operations. The cuttings storage area will be used to contain only the de-watered drill cuttings and will be lined and bermed to prevent any liquid runoff. The drill cuttings will be buried in the completion pit once completion operations are completed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit will be lined with a synthetic material 20 mil or thicker and will be used for the completing of the wells on the pad or used as part of our Aandarko Completions Transportation System (ACTS). Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completions pit.

If Kerr-McGee does not use a closed loop drilling system, it will construct a traditional drilling/completions pit to contain drill cuttings and for use in completion operations. The pit will be lined with a synthetic material 20 mil or thicker. The drill cuttings will be buried in the pit using traditional pit closure standards.

Unless otherwise approved, no oil or other oil based drill additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water, biodegradable polymer soap, bentonite clay, and /or non-toxic additives will be used in the system.

Pits will be constructed to minimize the accumulation of surface runoff. Should fluid hydrocarbons be encountered during drilling, completions, or well testing, product will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into the pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternative is approved by SITLA. Should timely removal prove infeasible, the pit will be netted with mesh no larger than 1 inch until such time as the hydrocarbons can be removed. Hydrocarbon removal will also take place prior to the closure of the pit, unless authorization is provided for disposal via alternative pit closure methods. (e.g. solidification)

Any additional pits necessary for subsequent operations, such as temporary flare pits, or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of the work.

For the protection of livestock and wildlife, all open pits and cellars will be fenced/covered to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after six (6) months from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Additional drying methods may include fly-ash solidification or sprinkler evaporation. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift. Reserve pit liners will be cut off or folded as near to the mud surface as possible and as safety considerations allow and buried on location.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

Any undesirable event, including accidental release of fluids, or release in excess of reportable quantities, will be managed according to the notification requirements of UDOGMs "Reporting Oil and Gas Undesirable Events" rule. Where State wells are participatory to a Federal agreement, according to NTL-3A, the appropriate Federal agencies will be notified.

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term "hazardous materials" as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities and may be kept in limited quantities on drilling sites and well locations for short periods of time during drilling or completion activities.

G. Ancillary Facilities:

None are anticipated.

H. Well Site Layout (see Well Pad Design Summary):

The location, orientation and aerial extent of each drill pad; reserve/completion/flare pit; access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure; proposed cuts and fills; and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment and facility layout; however, the area of disturbance, as described in the survey, will not be exceeded.

Coordinates are provided in the National Spatial Reference System, North American Datum, 1927 (NAD27) or latest edition. Distances are depicted on each plat to the nearest two adjacent section lines.

I. Plans for Reclamation of the Surface:

Surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. This reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but is not limited to the re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation includes pit closure, re-contouring (where possible), soil bed preparation, topsoil placement, seeding, and/or weed control.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left "rough" after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit.

Final Reclamation

Final reclamation will be performed for newly drilled unproductive wells and/or at the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by KMG. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring, final grading will be conducted over the entire surface of the well site and access road. Where practical, the area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers and surface materials will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep perpendicular to the natural flow of water.

All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to UDOGM.

Seeding and Measures Common to Interim and Final Reclamation

Reclaimed areas may be fenced to exclude grazing and encourage re-vegetation.

On slopes where severe erosion can become a problem and the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. The slope will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to, erosion control blankets and bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage.

Seeding will occur year-round as conditions allow. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for re-vegetation. The site specific seed mix will be provided by SITLA.

J. Surface/Mineral Ownership:

SITLA
675 East 500 South, Suite 500
Salt Lake City, UT 84102

L. Other Information:

None

M. Lessee's or Operators' Representative & Certification:

Danielle Piernot
Regulatory Analyst II
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6156

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724

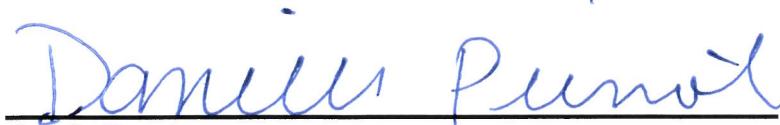
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

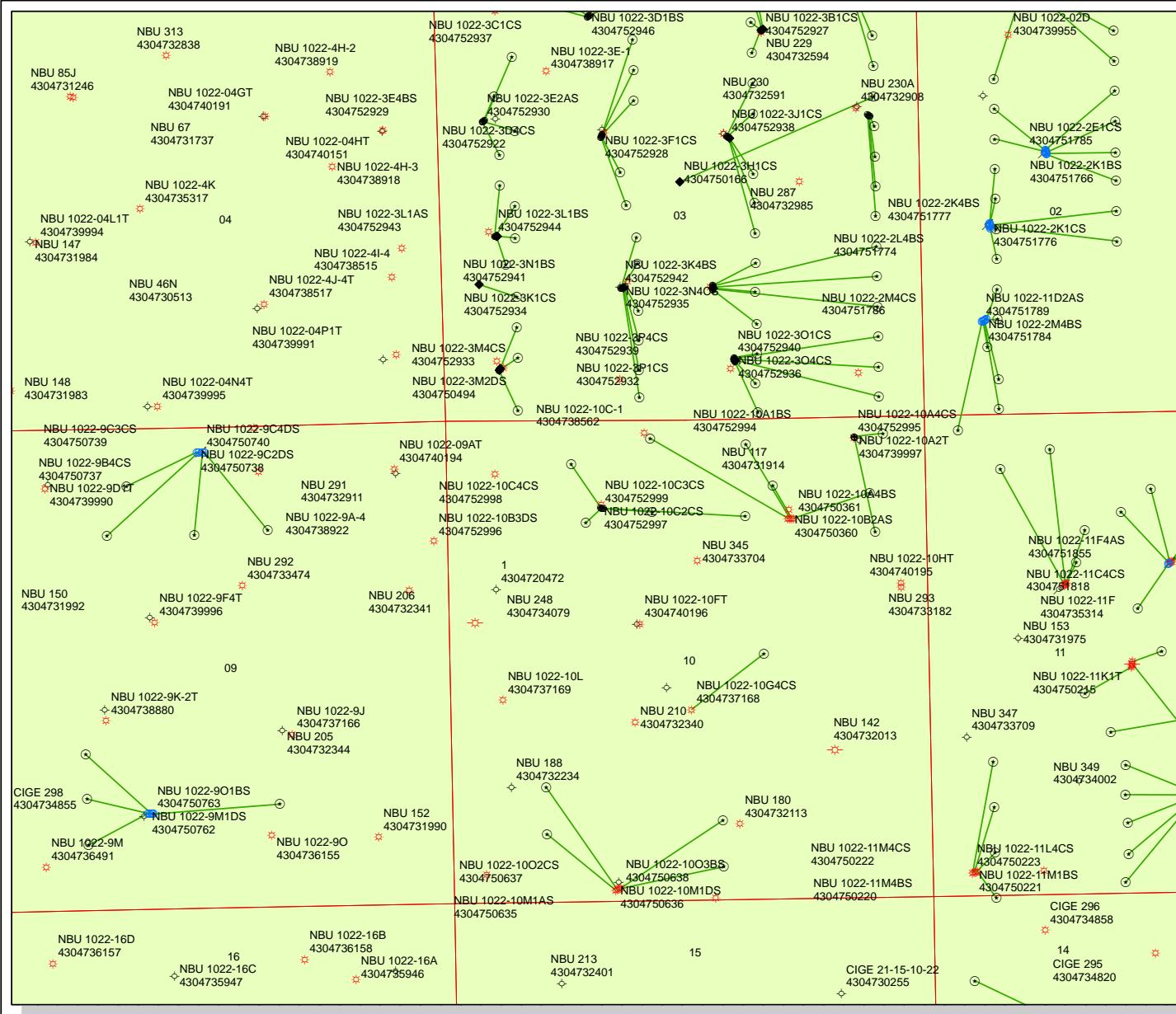
Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage for State lease activities is provided by State Surety Bond 22013542, and for applicable Federal lease activities and pursuant to 43 CFR 3104, by Bureau of Land Management Nationwide Bond WYB000291.

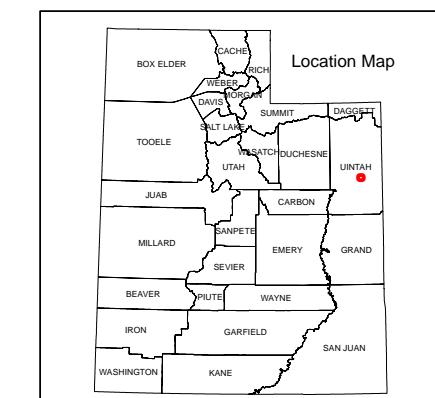
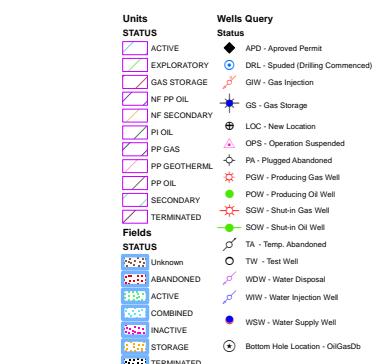
I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.


Danielle Piernot

July 18, 2012
Date

**API Number: 4304752999****Well Name: NBU 1022-10C3CS****Township T10.0S Range R22.0E Section 10****Meridian: SLBM**

Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
Map Produced by Diana Mason

1:13,484

RECEIVED: July 20, 2012

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

July 30, 2012

Memorandum

To: Assistant District Manager Minerals, Vernal District
From: Michael Coulthard, Petroleum Engineer
Subject: 2012 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2012 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
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(Proposed PZ WASATCH-MESA VERDE)

WELL PAD - NBU 1022-10A

43-047-52994 NBU 1022-10A1BS Sec 10 T10S R22E 0182 FNL 0780 FEL
BHL Sec 10 T10S R22E 0155 FNL 0460 FEL

43-047-52995 NBU 1022-10A4CS Sec 10 T10S R22E 0190 FNL 0775 FEL
BHL Sec 10 T10S R22E 1235 FNL 0570 FEL

WELL PAD - NBU 920-14D

43-047-52951 NBU 920-14E1BS Sec 14 T09S R20E 0603 FNL 0623 FWL
BHL Sec 14 T09S R20E 1592 FNL 0710 FWL

43-047-52952 NBU 920-14F2DS Sec 14 T09S R20E 0593 FNL 0620 FWL
BHL Sec 14 T09S R20E 1924 FNL 1806 FWL

43-047-52953 NBU 920-14C3DS Sec 14 T09S R20E 0584 FNL 0617 FWL
BHL Sec 14 T09S R20E 1041 FNL 1827 FWL

WELL PAD - NBU 1022-10C

43-047-52996 NBU 1022-10B3DS Sec 10 T10S R22E 0922 FNL 1715 FWL
BHL Sec 10 T10S R22E 1038 FNL 1990 FEL

43-047-52997 NBU 1022-10C2CS Sec 10 T10S R22E 0916 FNL 1695 FWL
BHL Sec 10 T10S R22E 0435 FNL 1379 FWL

API #	WELL NAME	LOCATION
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(Proposed PZ WASATCH-MESA VERDE)

WELL PAD - NBU 1022-10C

43-047-52998 NBU 1022-10C4CS Sec 10 T10S R22E 0924 FNL 1724 FWL
BHL Sec 10 T10S R22E 0970 FNL 2251 FWL

43-047-52999 NBU 1022-10C3CS Sec 10 T10S R22E 0919 FNL 1705 FWL
BHL Sec 10 T10S R22E 1079 FNL 1528 FWL

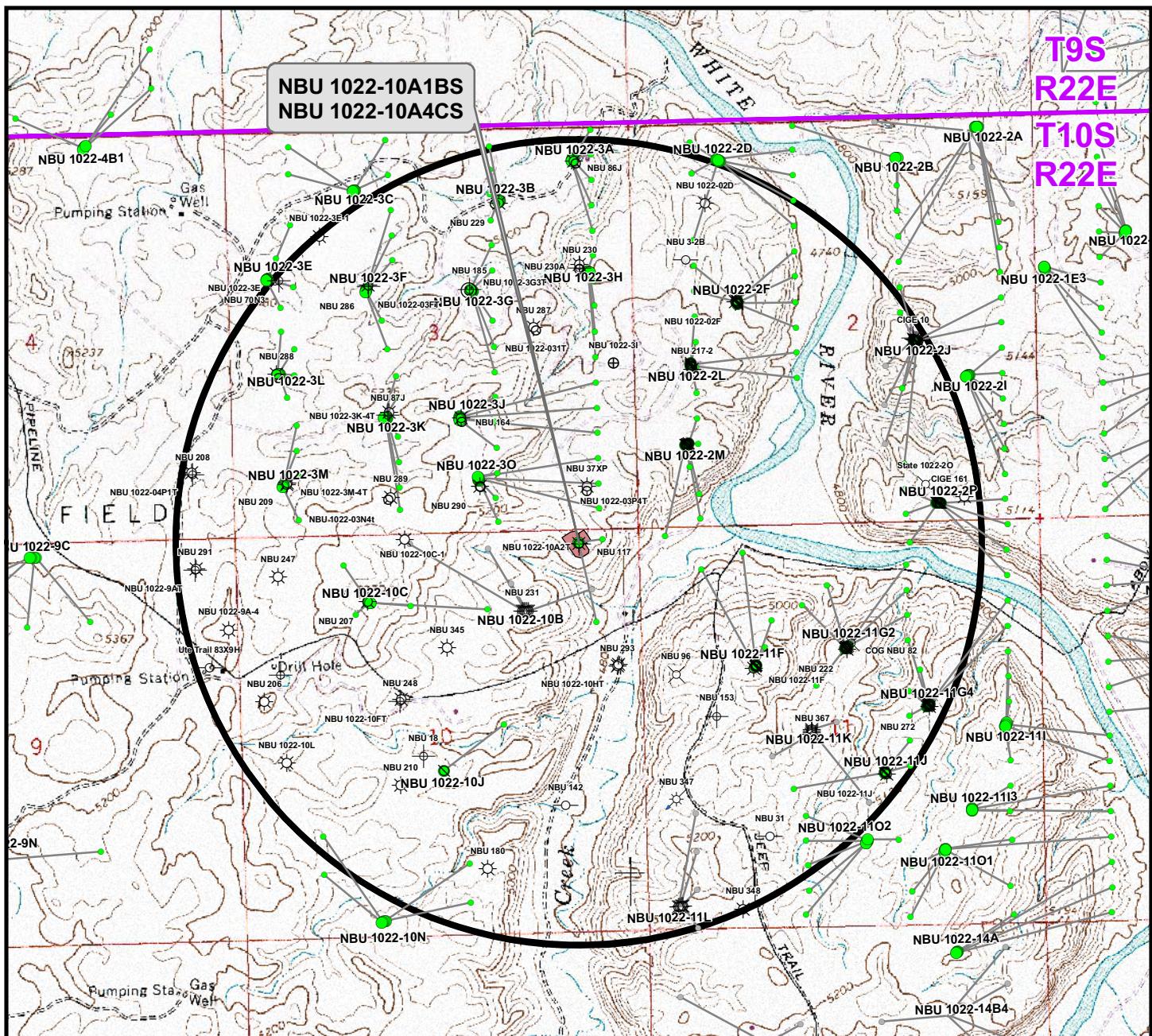
This office has no objection to permitting the wells at this time.

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land
Management, ou=Branch of Minerals,
email=Michael_Coulthard@blm.gov, c=US
Date: 2012.07.30 12:47:59 -06'00'

bcc: File - Natural Buttes Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:7-30-12



Well locations derived from Utah Division of Oil, Gas and Mining (UDOGM) (oilgas.ogm.utah.gov). The estimated distances from proposed bore locations to the nearest existing bore locations are based on UDOGM data.

Proposed Well	Nearest Well Bore	Footage
NBU 1022-10A1BS	NBU 117	313ft
NBU 1022-10A4CS	NBU 1022-10A4BS BH	433ft

Legend

- | | | | | | |
|--------------------------|------------------------|------------------------|-------------------------|----------------------|-----------------------|
| ● Well - Proposed | — Well Path | ● Producing | ⊕ Deferred | ● Active Injector | ○ Plugged & Abandoned |
| ● Bottom Hole - Proposed | ■ Well Pad | ● Spudded | ✗ Cancelled | ● Location Abandoned | ○ Shut-In |
| ● Bottom Hole - Existing | ■ Well - 1 Mile Radius | ○ APD Approved | ○ Temporarily Abandoned | | |
| | | ● Preliminary Location | | | |

WELL PAD - NBU 1022-10A

TOPO C
NBU 1022-10A1BS
& NBU 1022-10A4CS
LOCATED IN SECTION 10, T10S, R22E,
S.L.B.&M., UNTAH COUNTY, UTAH

Kerr-McGee Oil & Gas Onshore L.P.
1099 18th Street
Denver, Colorado 80202



CONSULTING, LLC
2155 North Main Street
Sheridan, Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182

SCALE: 1" = 2,000ft	NAD83 USP Central	SHEET NO:
DRAWN: TL	DATE: 12 June 2012	10
REVISED:	DATE:	10 OF 14



WELL DETAILS: NBU 1022-10A1BS

GL 5062 & KB 4 @ 5066.00ft (ASSUMED)

+N/S 0.00	+E/W 0.00	Northing 14519137.40	Easting 2083458.71	Latitude 39.970245	Longitude -109.418758
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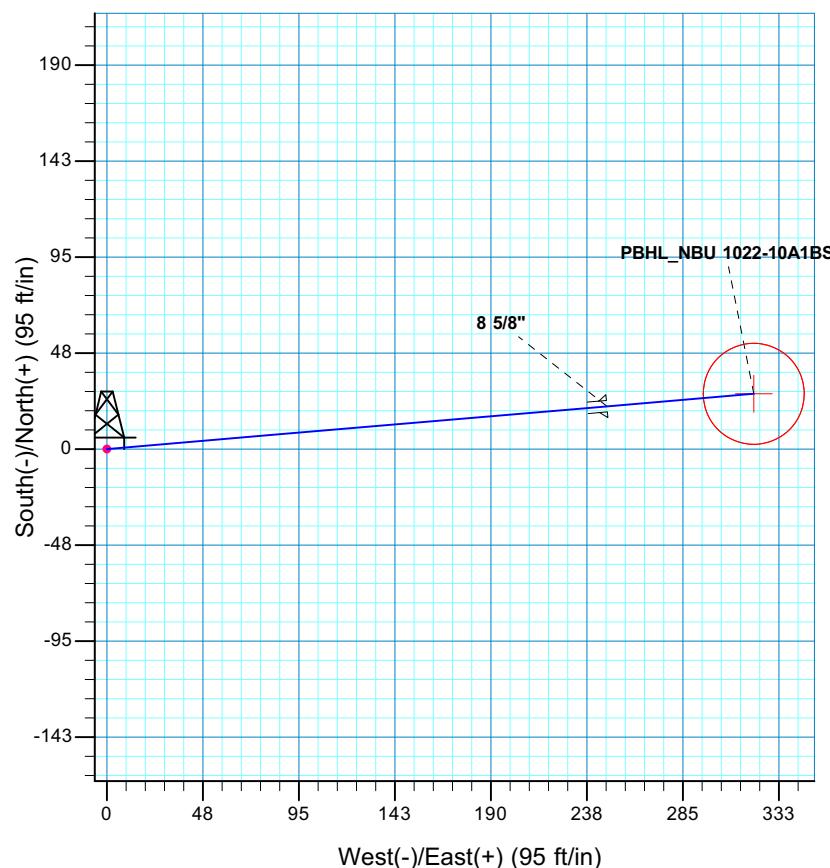
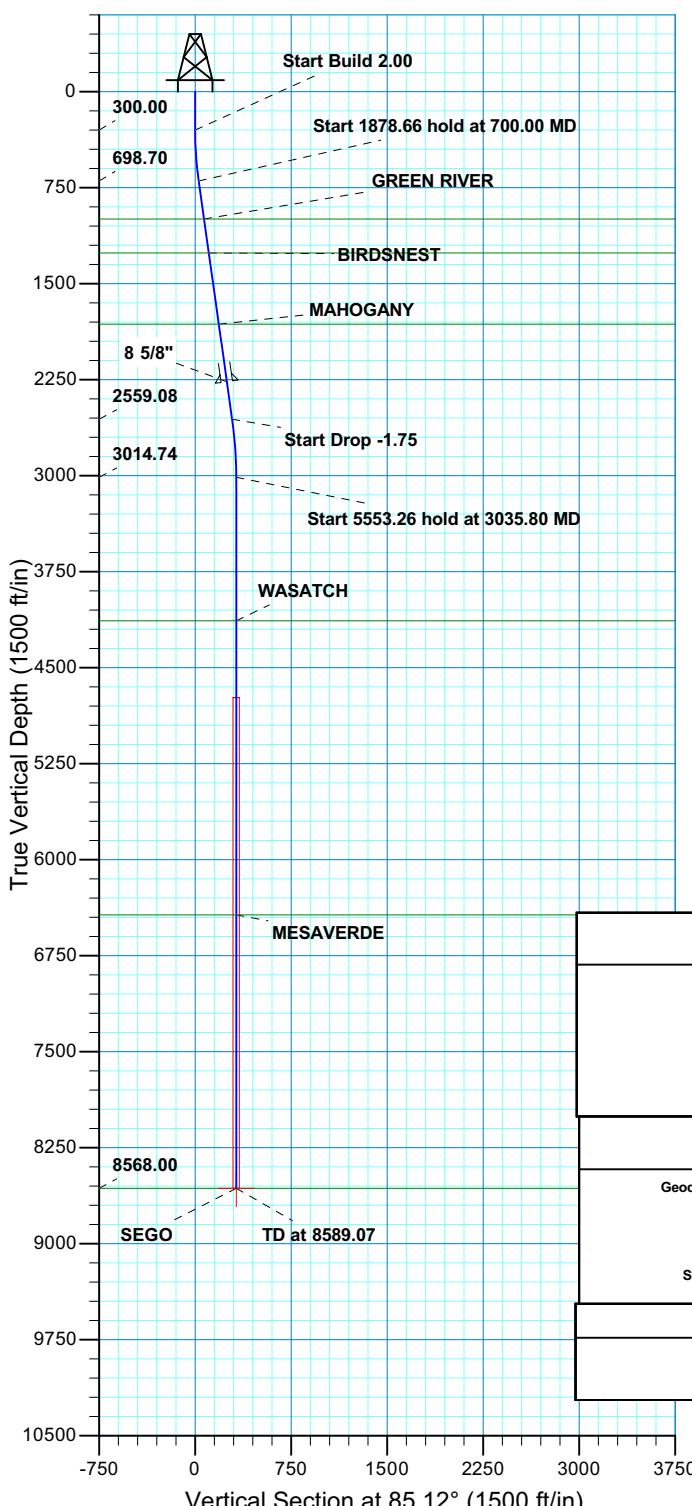
DESIGN TARGET DETAILS

Name PBHL	TVD 8568.00	+N/S 27.32	+E/W 320.04	Northing 14519170.39	Easting 2083778.22	Latitude 39.970320	Longitude -109.417616	Shape Circle (Radius: 25.00)
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- plan hits target center

Azimuths to True North
Magnetic North: 10.90°

Magnetic Field
Strength: 52217.2nT
Dip Angle: 65.83°
Date: 07/09/2012
Model: IGRF2010



SECTION DETAILS									
MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VSect	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
700.00	8.00	85.12	698.70	2.37	27.78	2.00	85.12	27.88	
2578.66	8.00	85.12	2559.08	24.61	288.29	0.00	0.00	289.34	
3035.80	0.00	0.00	3014.74	27.32	320.04	1.75	180.00	321.20	
8589.07	0.00	0.00	8568.00	27.32	320.04	0.00	0.00	321.20	PBHL_NBU 1022-10A1BS

PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N

Geodetic System: Universal Transverse Mercator (US Survey Feet)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: Zone 12N (114 W to 108 W)
 Location: SECTION 10 T10S R22E
 System Datum: Mean Sea Level

TVDPATH	MDPATH	FORMATION
997.00	1001.23	GREEN RIVER
1260.00	1266.81	BIRDSNEST
1817.00	1829.29	MAHOGANY
4134.00	4155.07	WASATCH
6432.00	6453.07	MESAVERDE
8568.00	8589.07	SEGO

CASING DETAILS

TDV	MD	Name	Size
2267.00	2283.71	8 5/8"	8.625

Plan: PLAN #1 PRELIMINARY (NBU 1022-10A1BS/OH)

Created by: Robertson Date: 07/09/12

RECE Received: July 19, 2012



WELL DETAILS: NBU 1022-10A4CS

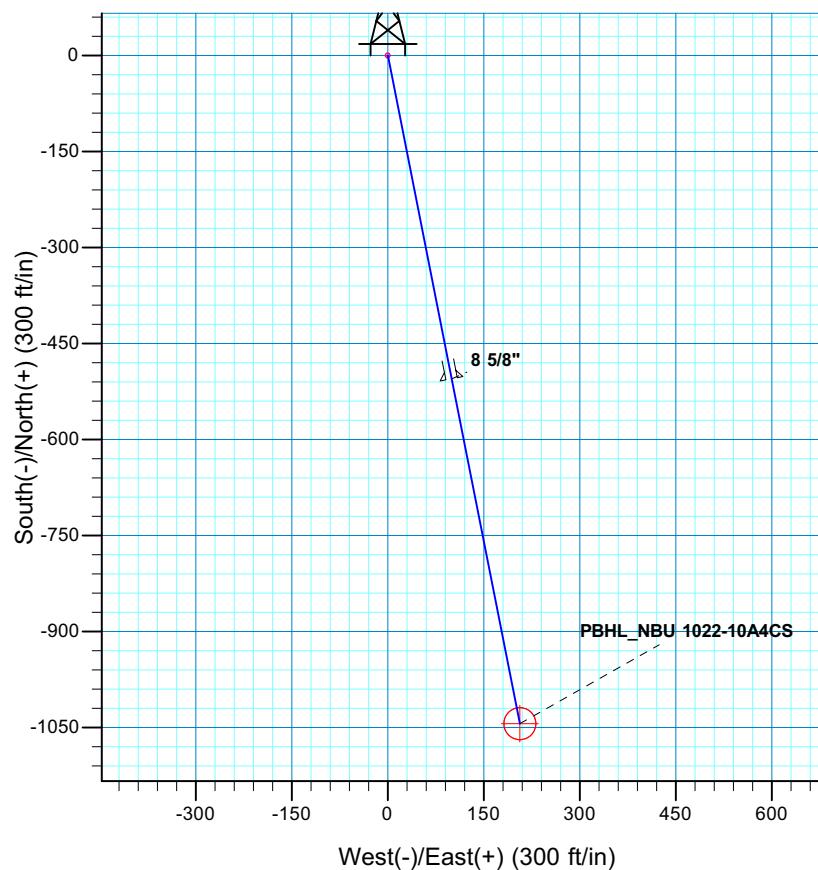
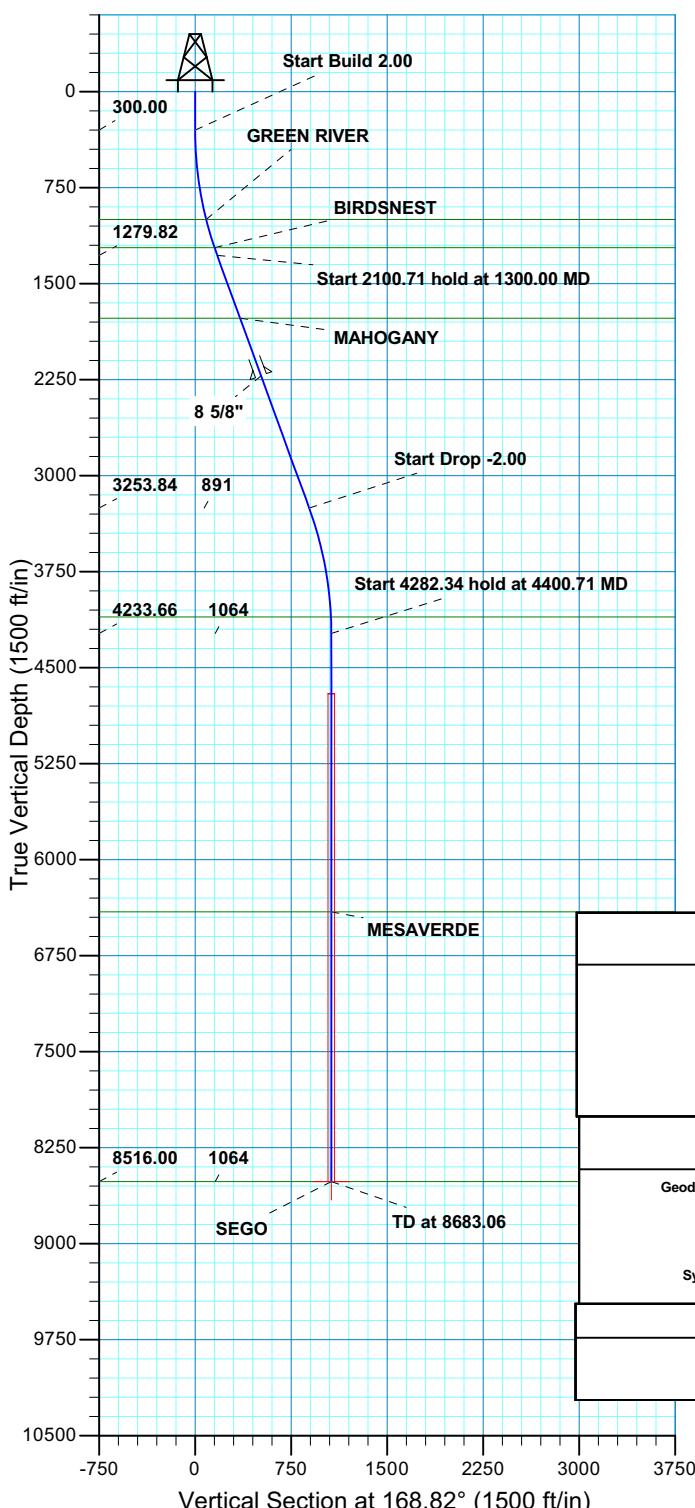
GL 5062 & KB 4 @ 5066.00ft (ASSUMED)

+N/S 0.00	+E/W 0.00	Northing 14519129.12	Easting 2083464.47	Latitude 39.970222	Longitude -109.418738
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DESIGN TARGET DETAILS

Name PBHL	TVD 8516.00	+N/S -1043.84	+E/W 206.27	Northing 14518089.11	Easting 2083689.21	Latitude 39.967356	Longitude -109.418002	Shape Circle (Radius: 25.00)
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T Azimuths to True North
 M Magnetic North: 10.90°
 Magnetic Field Strength: 52217.2nT
 Dip Angle: 65.83°
 Date: 07/09/2012
 Model: IGRF2010



SECTION DETAILS									
MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VSect	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
1300.00	20.00	168.82	1279.82	-169.49	33.49	2.00	168.82	172.77	
3400.71	20.00	168.82	3253.84	-874.35	172.77	0.00	0.00	891.25	
4400.71	0.00	0.00	4233.66	-1043.84	206.27	2.00	180.00	1064.02	PBHL_NBU_1022-10A4CS
8683.06	0.00	0.00	8516.00	-1043.84	206.27	0.00	0.00	1064.02	

PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N

Geodetic System: Universal Transverse Mercator (US Survey Feet)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: Zone 12N (114 W to 108 W)
 Location: SECTION 10 T10S R22E
 System Datum: Mean Sea Level

TVDPATH	MDPATH	FORMATION
1000.00	1007.16	GREEN RIVER
1220.00	1236.60	BIRDSNEST
1770.00	1821.64	MAHOGANY
4104.00	4271.01	WASATCH
6409.00	6576.06	MESAVERDE
8515.99	8683.05	SEGO

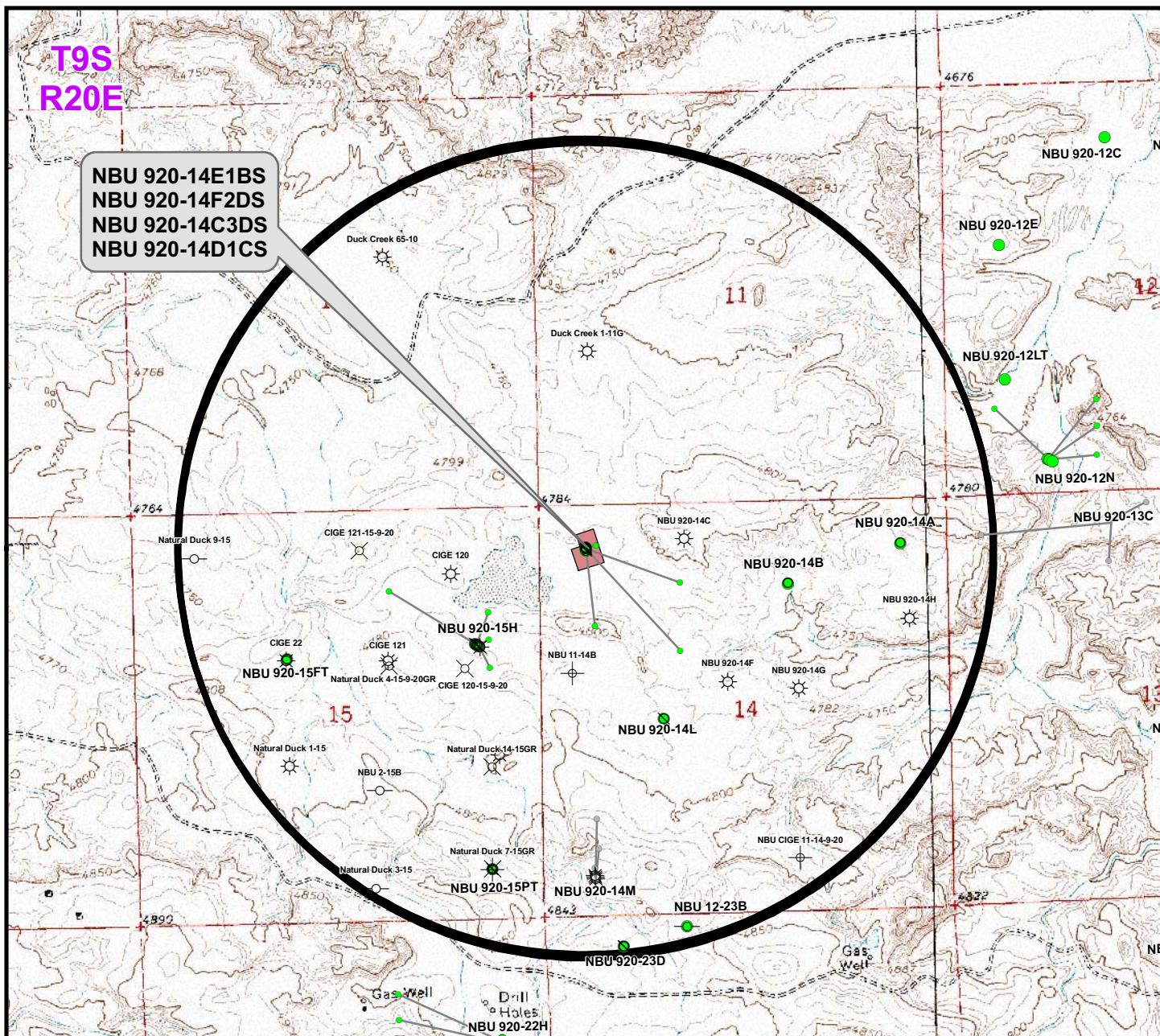
CASING DETAILS

TDV	MD	Name	Size
2220.00	2300.52	8 5/8"	8.625

Plan: PLAN #1 PRELIMINARY (NBU 1022-10A4CS/OH)

Received: July 19, 2012

Created by: Robert on Date: 07/09/12



Well locations derived from Utah Division of Oil, Gas and Mining (UDOGM) (oilgas.ogm.utah.gov). The estimated distances from proposed bore locations to the nearest existing bore locations are based on UDOGM data.

Proposed Well	Nearest Well Bore	Footage
NBU 920-14E1BS	NBU 11-14B	669ft
NBU 920-14F2DS	NBU 920-14F	734ft
NBU 920-14C3DS	NBU 920-14C	567ft
NBU 920-14D1CS	NBU 920-14C	1,145ft

Legend

- | | | | | | |
|--------------------------|------------------------|------------------------|-------------------------|----------------------|-----------------------|
| ● Well - Proposed | — Well Path | ● Producing | ⊕ Deferred | ● Active Injector | ○ Plugged & Abandoned |
| ● Bottom Hole - Proposed | ■ Well Pad | ● Spudded | ✗ Cancelled | ● Location Abandoned | — Shut-In |
| ● Bottom Hole - Existing | ■ Well - 1 Mile Radius | ○ APD Approved | ○ Temporarily Abandoned | | |
| | | ● Preliminary Location | | | |

WELL PAD - NBU 920-14D

TOPO C
NBU 920-14E1BS, NBU 920-14F2DS,
NBU 920-14C3DS & NBU 920-14D1CS
LOCATED IN SECTION 14, T9S, R20E,
S.L.B.&M., UNTAH COUNTY, UTAH

Kerr-McGee Oil & Gas Onshore L.P.
1099 18th Street
Denver, Colorado 80202



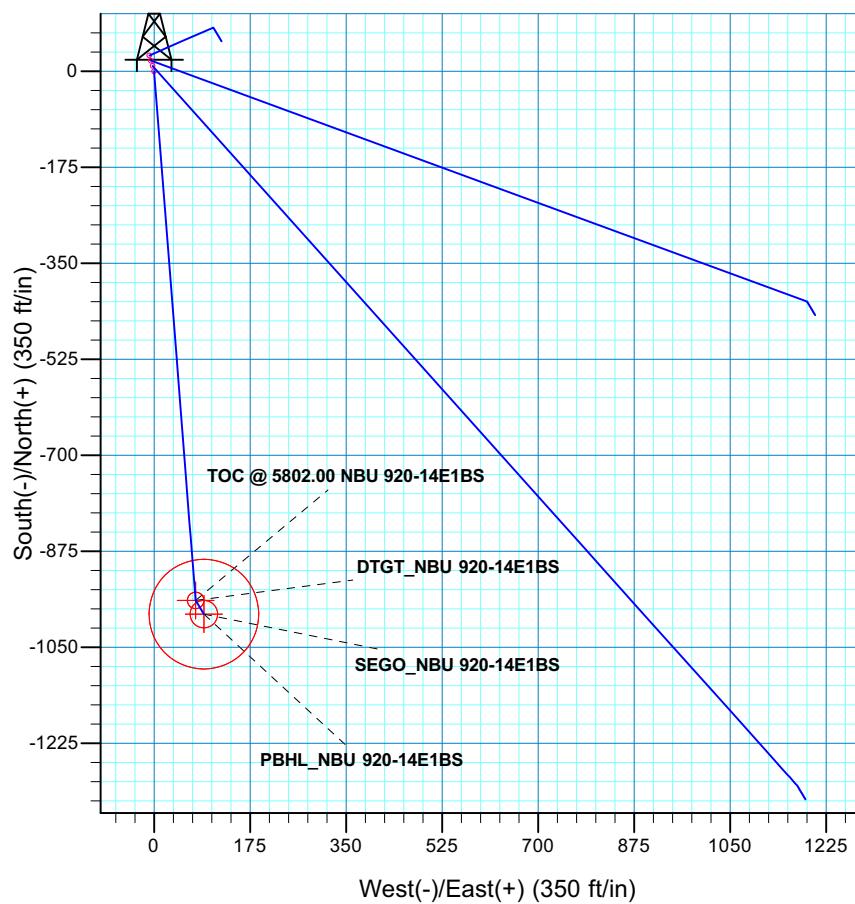
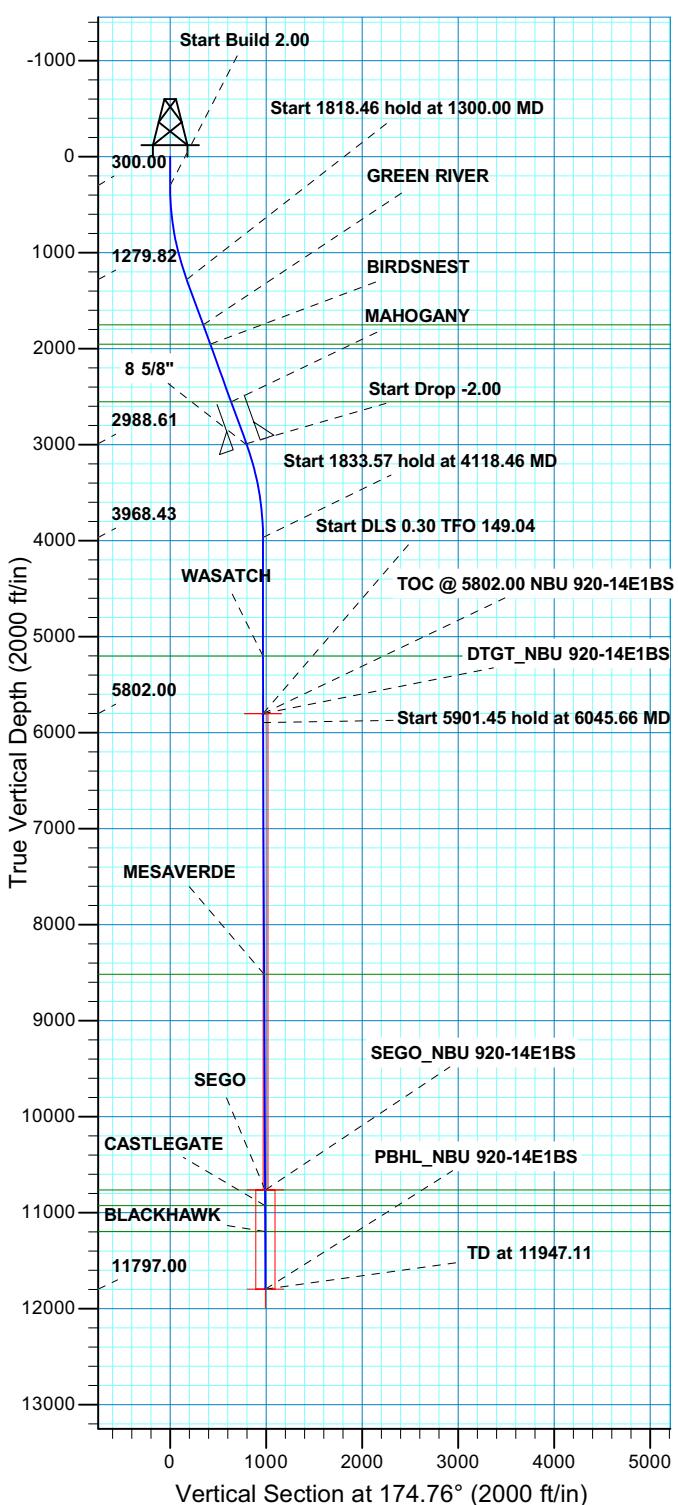
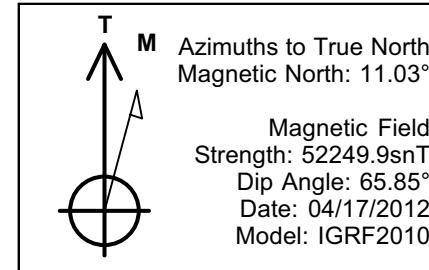
CONSULTING, LLC
2155 North Main Street
Sheridan, Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182



SCALE: 1" = 2,000ft	NAD83 USP Central	SHEET NO: 12
DRAWN: JElo	DATE: 25 Dec 2009	
REVISED: TL	DATE: 30 Mar 2012	12 OF 16



WELL DETAILS: NBU 920-14E1BS					
GL 4775 & KB 4 @ 4779.00ft (ASSUMED)					
+N/S 0.00	+E/W 0.00	Northing 14543892.47	Easting 2020871.43	Latitude 40.041041	Longitude -109.640724
DESIGN TARGET DETAILS					
Name DTGT	TVD 5802.00	+N/S -964.52	+E/W 75.70	Northing 14542929.22	Easting 2020961.85
TOC	5802.00	-964.52	75.70	14542929.22	2020961.85
SEGO	10764.00	-989.52	90.70	14542904.45	2020977.23
PBHL	11797.00	-989.52	90.70	14542904.45	2020977.23
	- plan hits target center	- plan hits target center	- plan misses target center by 5.06ft at 10914.12ft MD (10764.02 TVD, -985.18 N, 88.10 E)		
	- plan hits target center				



SECTION DETAILS								
MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00
1300.00	20.00	175.51	1279.82	-172.24	13.52	2.00	175.51	172.75
3118.46	20.00	175.51	2988.61	-792.28	62.18	0.00	0.00	794.65
4118.46	0.00	0.00	3968.43	-964.52	75.70	2.00	180.00	967.40
5952.04	0.00	0.00	5802.00	-964.52	75.70	0.00	0.00	DTGT_NBU 920-14E1BS
6045.66	0.28	149.04	5895.63	-964.72	75.82	0.30	149.04	967.61
11947.11	0.28	149.04	11797.00	-989.52	90.70	0.00	0.00	PBHL_NBU 920-14E1BS

PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N		FORMATION TOP DETAILS	
Geodetic System: Universal Transverse Mercator (US Survey Feet)		Formation	
Datum: NAD 1927 (NADCON CONUS)		GREEN RIVER	
Ellipsoid: Clarke 1866		BIRDSNEST	
Zone: Zone 12N (114 W to 108 W)		MAHOGANY	
Location: SECTION 14 T9S R20E		WASATCH	
System Datum: Mean Sea Level		MESAVERDE	
		SEGO	
		CASTLEGATE	
		BLACKHAWK	

CASING DETAILS			
TVD	MD	Name	Size
3003.00	3133.76	8 5/8"	8.625

Plan: PLAN #1 PRELIMINARY (NBU 920-14E1BS/OH)

Created by Gabi Kunkel Date: 15 April 2012

RECE Received: July 17, 2012



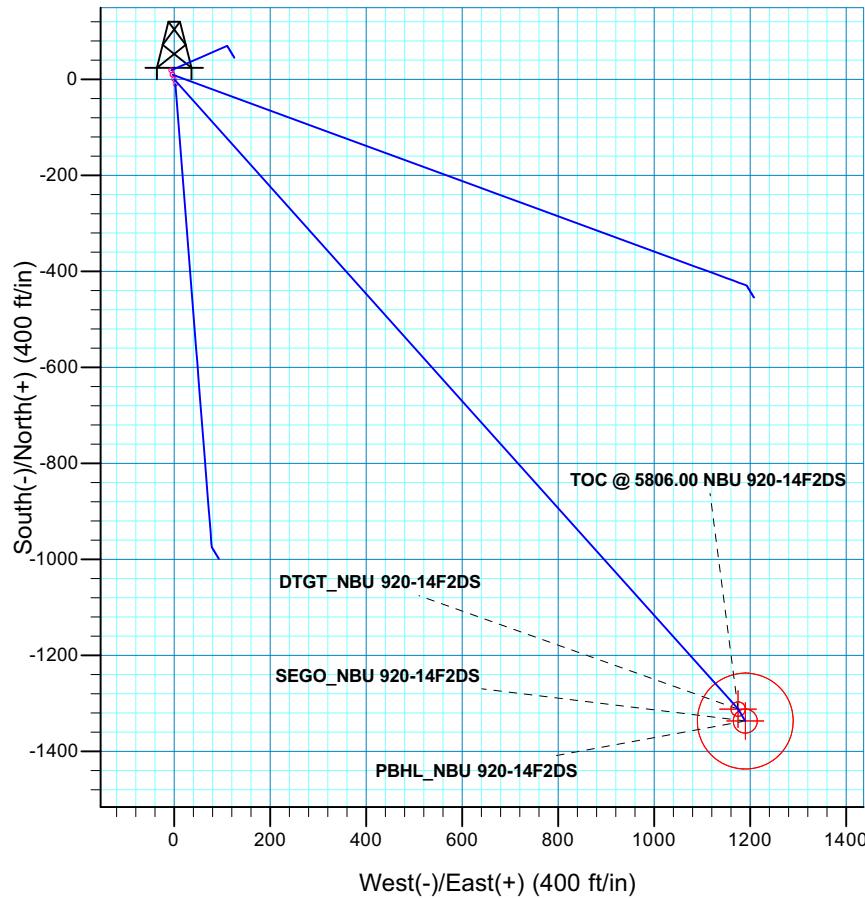
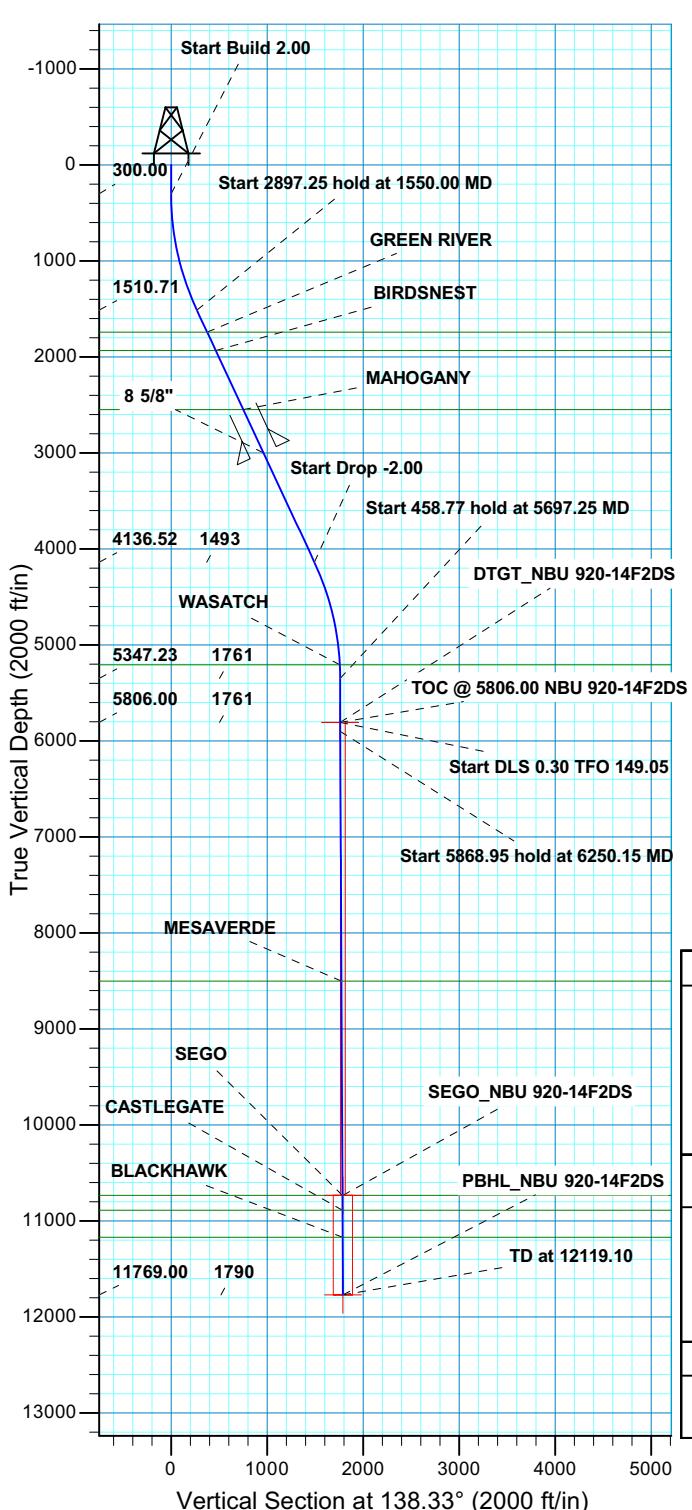
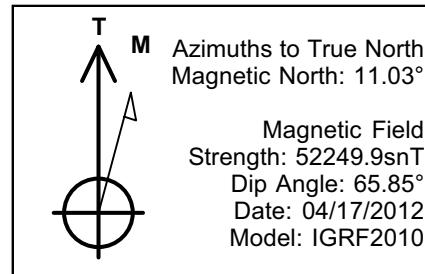
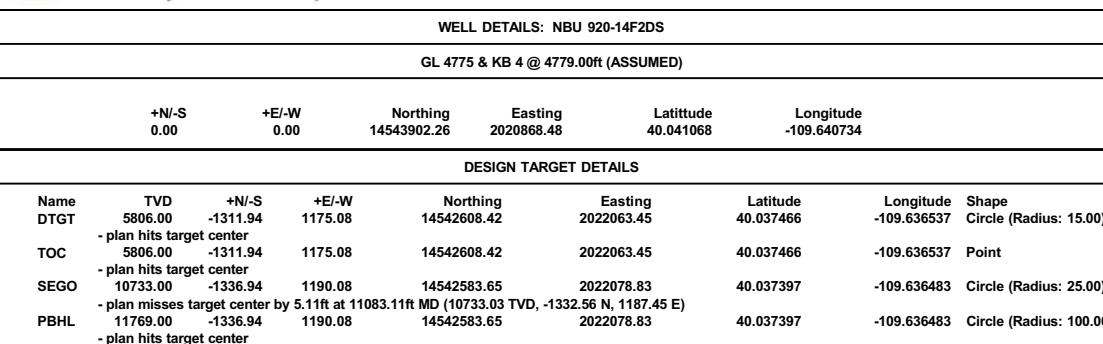
WELL DETAILS: NBU 920-14F2DS

GL 4775 & KB 4 @ 4779.00ft (ASSUMED)

+N/S 0.00	+E/W 0.00	Northing 14543902.26	Easting 2020868.48	Latitude 40.041068	Longitude -109.640734
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DESIGN TARGET DETAILS

Name	TVD	+N/S	+E/W	Northing	Easting	Latitude	Longitude	Shape
DTGT	5806.00	-1311.94	1175.08	14542608.42	2022063.45	40.037466	-109.636537	Circle (Radius: 15.00)
TOC	5806.00	-1311.94	1175.08	14542608.42	2022063.45	40.037466	-109.636537	Point
SEGO	10733.00	-1336.94	1190.08	14542583.65	2022078.83	40.037397	-109.636483	Circle (Radius: 25.00)
PBHL	11769.00	-1336.94	1190.08	14542583.65	2022078.83	40.037397	-109.636483	Circle (Radius: 100.00)
								-plan misses target center by 5.11ft at 11083.11ft MD (10733.03 TVD, -1332.56 N, 1187.45 E)
								-plan hits target center



SECTION DETAILS								
MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00
1550.00	25.00	138.15	1510.71	-199.94	179.08	2.00	138.15	268.41
4447.25	25.00	138.15	4136.52	-1112.00	996.00	0.00	0.00	1492.83
5697.25	0.00	0.00	5347.23	-1311.94	1175.08	2.00	180.00	1761.24
6156.03	0.00	0.00	5806.00	-1311.94	1175.08	0.00	0.00	DTGT_NBU 920-14F2DS
6250.15	0.28	149.05	5900.12	-1312.14	1175.20	0.30	149.05	1761.47
12119.10	0.28	149.05	11769.00	-1336.94	1190.08	0.00	0.00	PBHL_NBU 920-14F2DS

PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N				FORMATION TOP DETAILS			
TVDPat	MDPat	Formation					
1741.00	1804.09	GREEN RIVER					
1933.00	2015.94	BIRD'SNEST					
2547.00	2693.42	MAHOGANY					
5206.00	5555.97	WASATCH					
8502.00	8852.06	MESAVERDE					
10733.00	11083.08	SEGO					
10887.00	11237.09	CASTLEGATE					
11169.00	11519.09	BLACKHAWK					

CASING DETAILS				
TVD	MD	Name	Size	
2997.00	3189.94	8 5/8"	8.625	

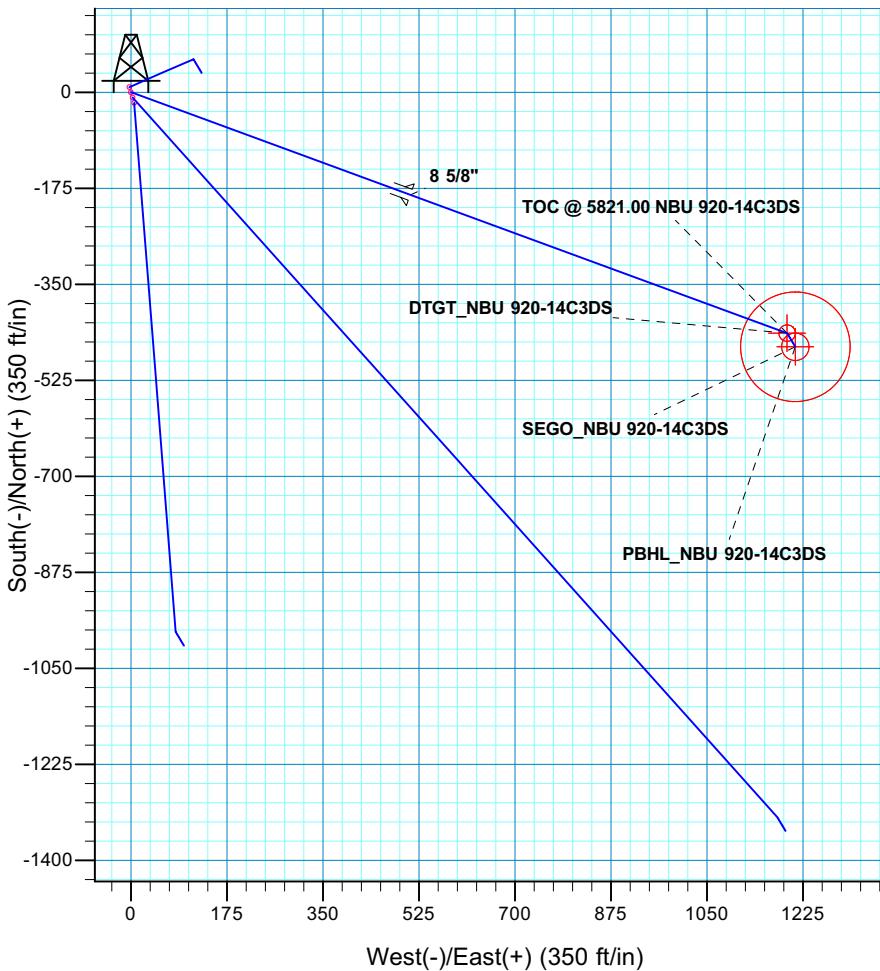
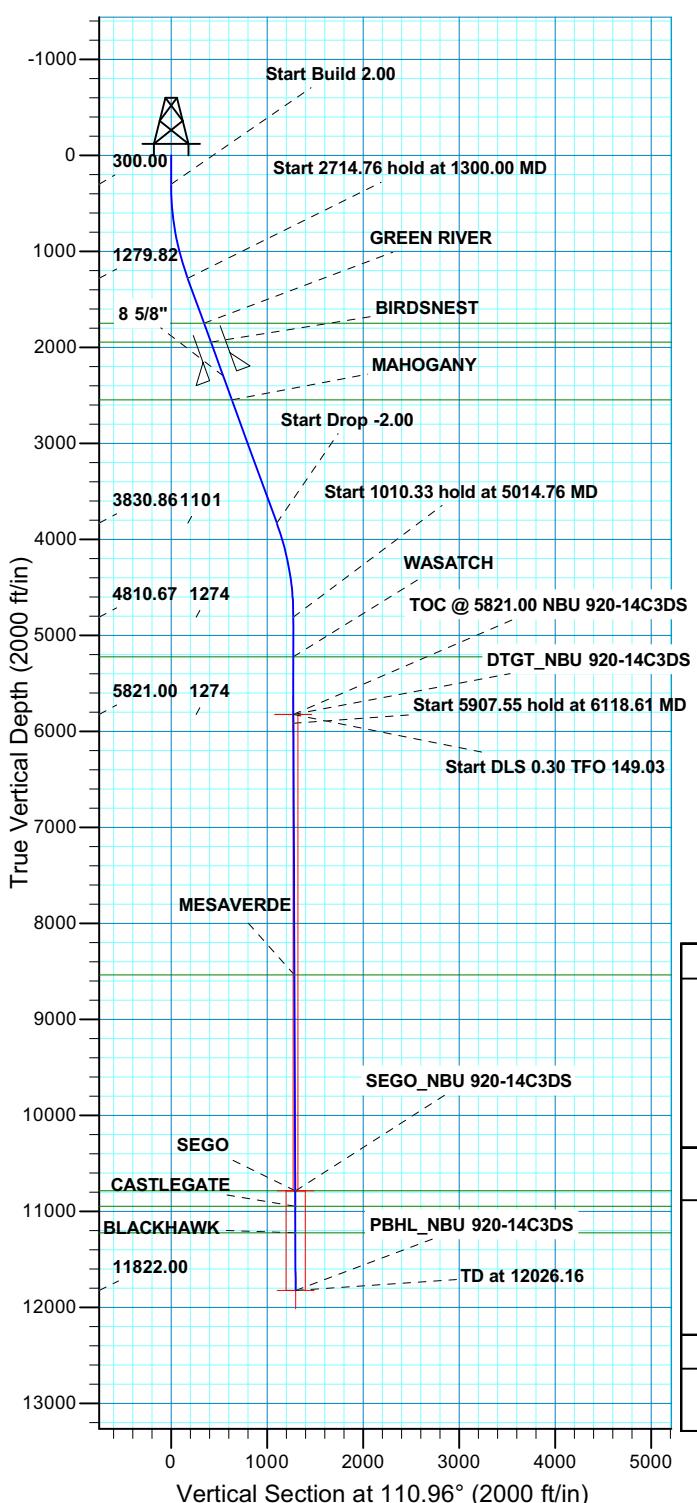
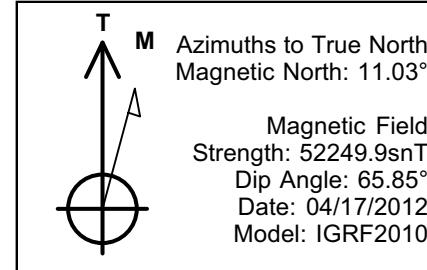
Plan: PLAN #1 PRELIMINARY (NBU 920-14F2DS/OH)

Created by Gabi Koenig Date: 16 April 2012

RECE Received: July 17, 2012



WELL DETAILS: NBU 920-14C3DS					
GL 4775 & KB 4 @ 4779.00ft (ASSUMED)					
+N/S 0.00	+E/W 0.00	Northing 14543911.69	Easting 2020865.26	Latitude 40.041094	Longitude -109.640745
DESIGN TARGET DETAILS					
Name DTGT	TVD 5821.00	+N/S -438.96	+E/W 1196.03	Northing 14543491.03	Easting 2022067.85
TOC	5821.00	-438.96	1196.03	14543491.03	2022067.85
SEGO	10784.00	-463.96	1211.03	14543466.27	2022083.23
PBHL	11822.00	-463.96	1211.03	14543466.27	2022083.23
	- plan misses target center by 5.08ft at 10988.17ft MD (10784.02 TVD, -459.60 N, 1208.42 E)				
	- plan hits target center				



SECTION DETAILS								
MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00
1300.00	20.00	110.15	1279.82	-59.53	162.19	2.00	110.15	172.75
4014.76	20.00	110.15	3830.86	-379.43	1033.84	0.00	0.00	1101.16
5014.76	0.00	0.00	4810.67	-438.96	1196.03	2.00	180.00	1273.91
6025.09	0.00	0.00	5821.00	-438.96	1196.03	0.00	0.00	1273.91
6118.61	0.28	149.03	5914.52	-439.16	1196.15	0.30	149.03	1274.09
12026.16	0.28	149.03	11822.00	-463.96	1211.03	0.00	0.00	1296.86

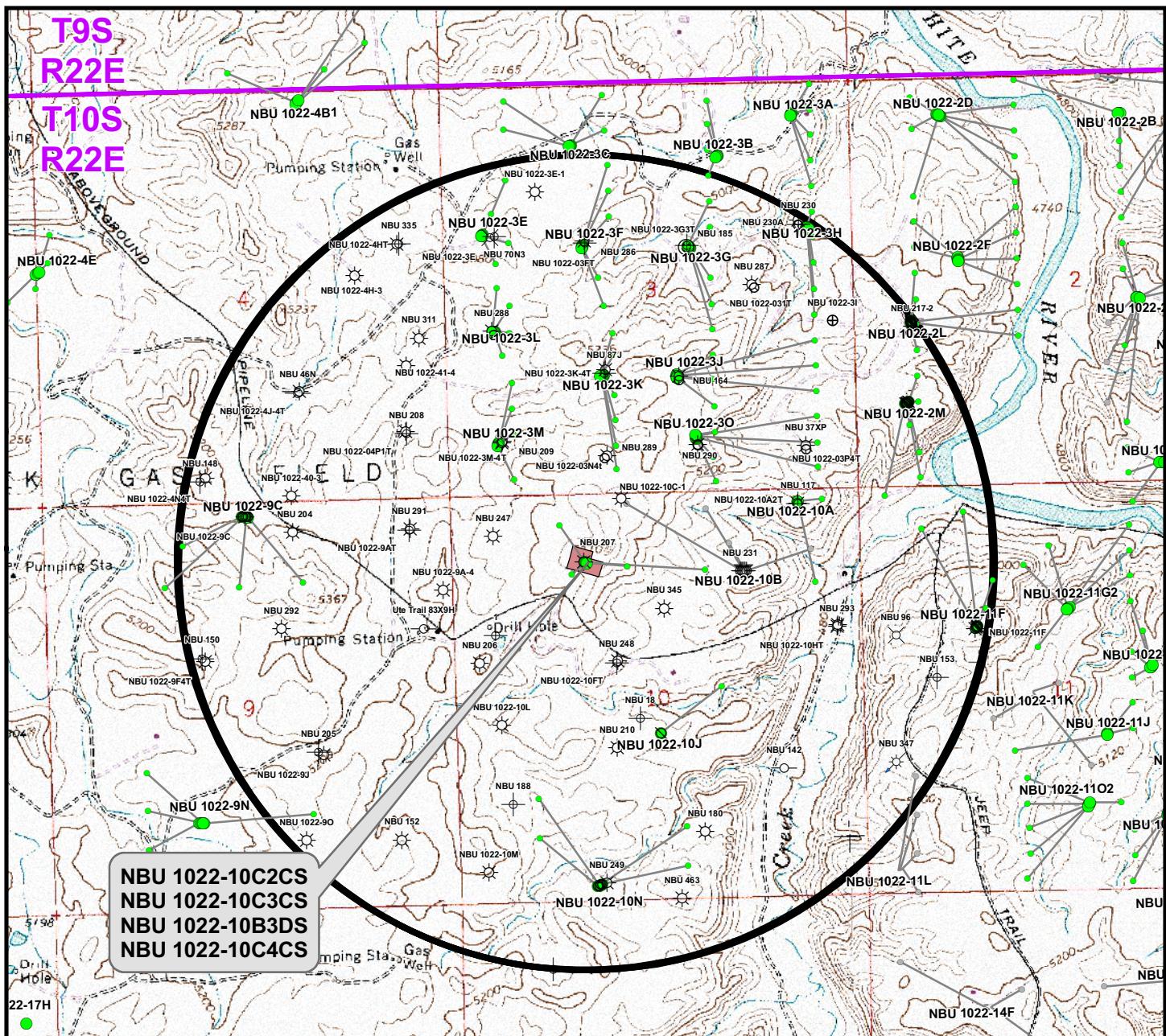
PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N		FORMATION TOP DETAILS	
Geodetic System: Universal Transverse Mercator (US Survey Feet)		Formation	
Datum: NAD 1927 (NADCON CONUS)		GREEN RIVER	
Ellipsoid: Clarke 1866		BIRD'SNEST	
Zone: Zone 12N (114 W to 108 W)		MAHOGANY	
Location: SECTION 14 T9S R20E		WASATCH	
System Datum: Mean Sea Level		MESAVERDE	
		SEGO	
		CASTLEGATE	
		BLACKHAWK	

CASING DETAILS			
TVD	MD	Name	Size
2295.00	2380.34	8 5/8"	8.625

Plan: PLAN #1 PRELIMINARY (NBU 920-14C3DS/OH)

Created by Gabi Koenig Date: 15 April 2012

RECE Received: July 17, 2012



Well locations derived from Utah Division of Oil, Gas and Mining (UDOGM) (oilgas.ogm.utah.gov). The estimated distances from proposed bore locations to the nearest existing bore locations are based on UDOGM data.

Proposed Well	Nearest Well Bore	Footage
NBU 1022-10C2CS	NBU 207	572ft
NBU 1022-10C3CS	NBU 207	227ft
NBU 1022-10B3DS	NBU 231	448ft
NBU 1022-10C4CS	NBU 207	569ft

Legend

- | | | | | | |
|--------------------------|------------------------|------------------------|-------------------------|----------------------|-----------------------|
| ● Well - Proposed | — Well Path | ● Producing | ⊕ Deferred | ● Active Injector | — Plugged & Abandoned |
| ● Bottom Hole - Proposed | ■ Well Pad | ● Spudded | ✗ Cancelled | ● Location Abandoned | ○ Shut-In |
| ● Bottom Hole - Existing | ■ Well - 1 Mile Radius | ○ APD Approved | ○ Temporarily Abandoned | | |
| | | ● Preliminary Location | | | |

WELL PAD - NBU 1022-10C

TOPO C
**NBU 1022-10C2CS, NBU 1022-10C3CS,
NBU 1022-10B3DS & NBU 1022-10C4CS**
**LOCATED IN SECTION 10, T10S, R22E,
S.L.B.&M., UNTAH COUNTY, UTAH**

**Kerr-McGee Oil &
Gas Onshore L.P.**
1099 18th Street
Denver, Colorado 80202



CONSULTING, LLC
2155 North Main Street
Sheridan, Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182

SCALE: 1" = 2,000ft	NAD83 USP Central	SHEET NO:
DRAWN: TL	DATE: 12 June 2012	12
REVISED:	DATE:	12 OF 16



WELL DETAILS: NBU 1022-10B3DS

GL 5303 & KB 4 @ 5307.00ft (ASSUMED)

+N/S 0.00	+E/W 0.00	Northing 14518359.02	Easting 2080721.99	Latitude 39.968241	Longitude -109.428571
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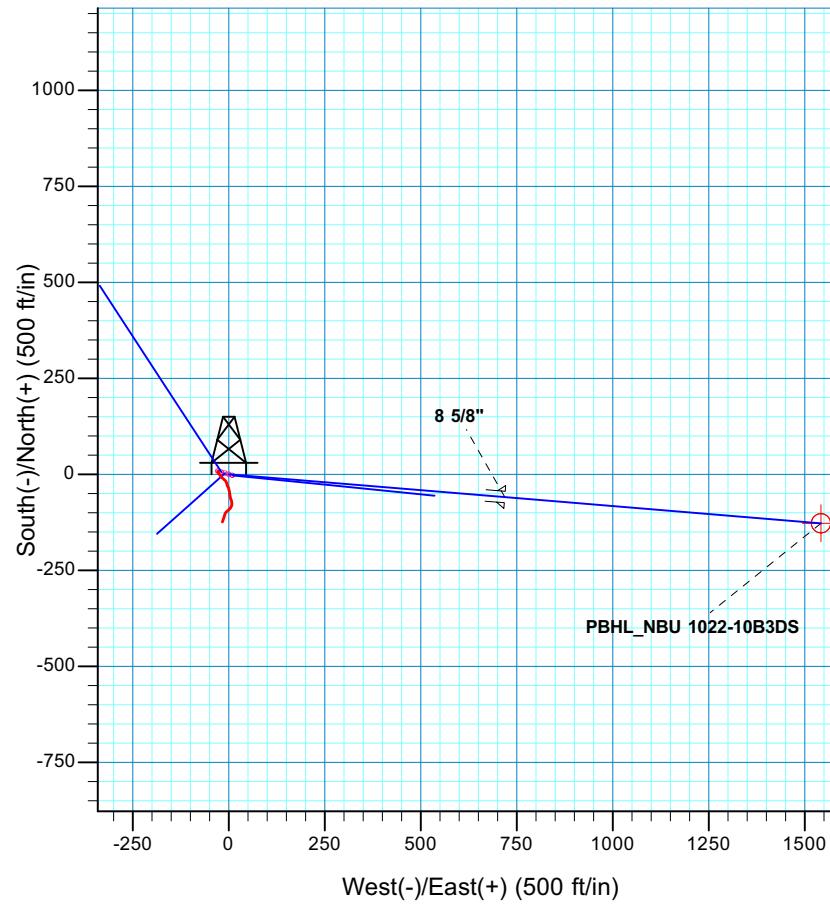
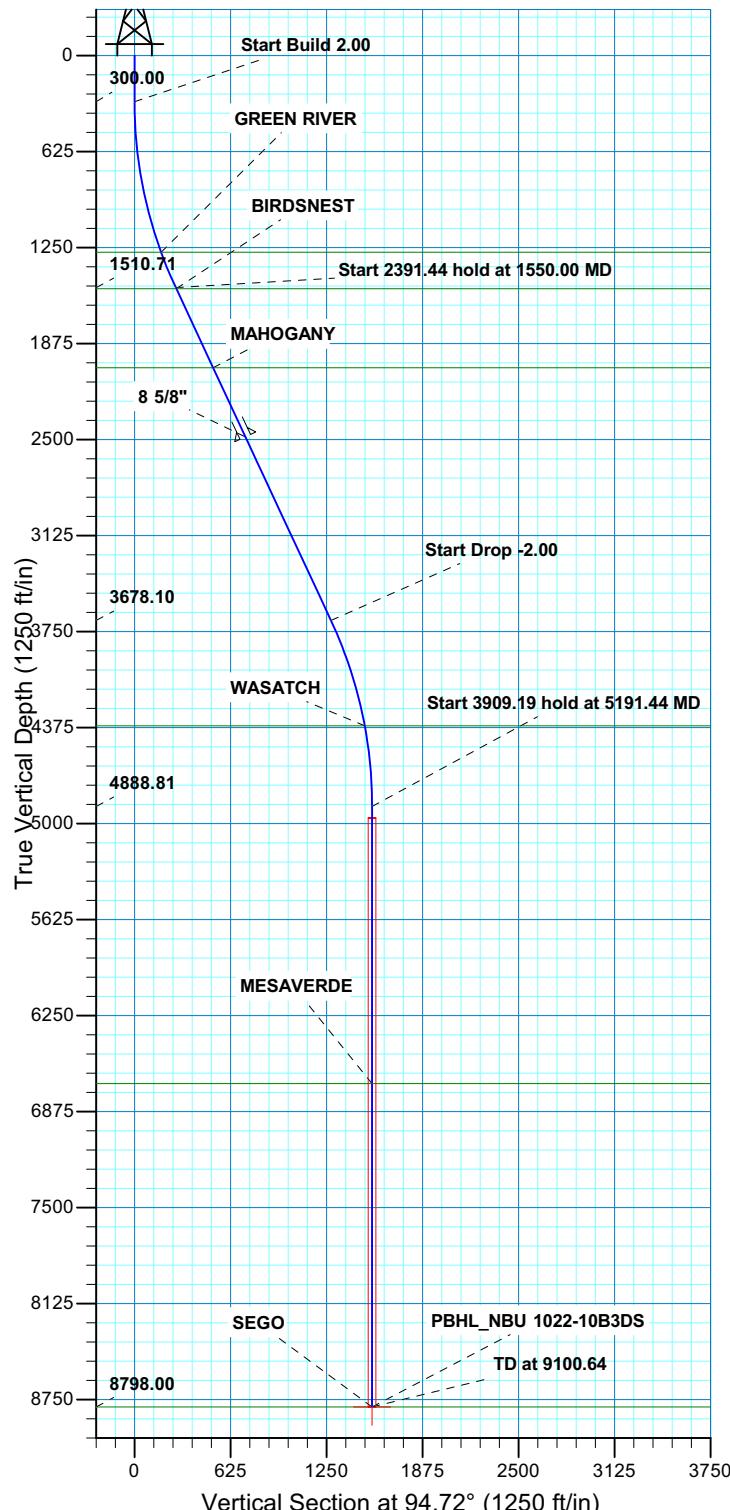
DESIGN TARGET DETAILS

Name PBHL	TVD 8798.00	+N/S -127.43	+E/W 1542.23	Northing 14518258.79	Easting 2082266.22	Latitude 39.967891	Longitude -109.423068	Shape Circle (Radius: 25.00)
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- plan hits target center

M Azimuths to True North
Magnetic North: 10.90°

Magnetic Field
Strength: 52212.9nT
Dip Angle: 65.83°
Date: 07/09/2012
Model: IGRF2010



SECTION DETAILS								
MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00
1550.00	25.00	94.72	1510.71	-22.10	267.50	2.00	94.72	268.41
3941.44	25.00	94.72	3678.10	-105.33	1274.73	0.00	0.00	1279.08
5191.44	0.00	0.00	4888.81	-127.43	1542.23	2.00	180.00	1547.48
9100.64	0.00	0.00	8798.00	-127.43	1542.23	0.00	0.00	1547.48
PBHL_NBU 1022-10B3DS								

PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N			FORMATION TOP DETAILS		
Geodetic System: Universal Transverse Mercator (US Survey Feet)			TVDPath		
Datum: NAD 1927 (NADCON CONUS)			MDPath		
Ellipsoid: Clarke 1866			Formation		
Zone: Zone 12N (114 W to 108 W)			GREEN RIVER		
Location: SECTION 10 T10S R22E			BIRDSNEST		
System Datum: Mean Sea Level			MAHOGANY		
			WASATCH		
			MESAVERDE		
			SEGO		

CASING DETAILS				
TVD	MD	Name	Size	
2483.00	2622.80	8 5/8"	8.625	

Plan: PLAN #1 PERMIT (NBU 1022-10B3DS/OH)

RECE Received: July 19, 2012

Created By: Gale Marshall Date: 07/19/2012



WELL DETAILS: NBU 1022-10C2CS

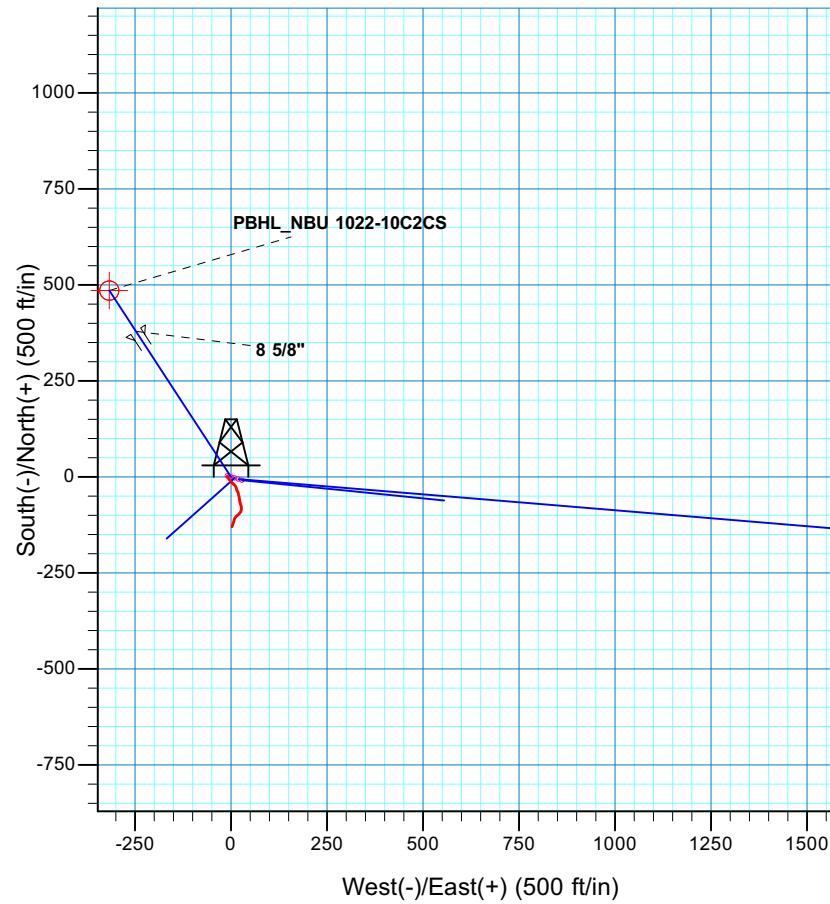
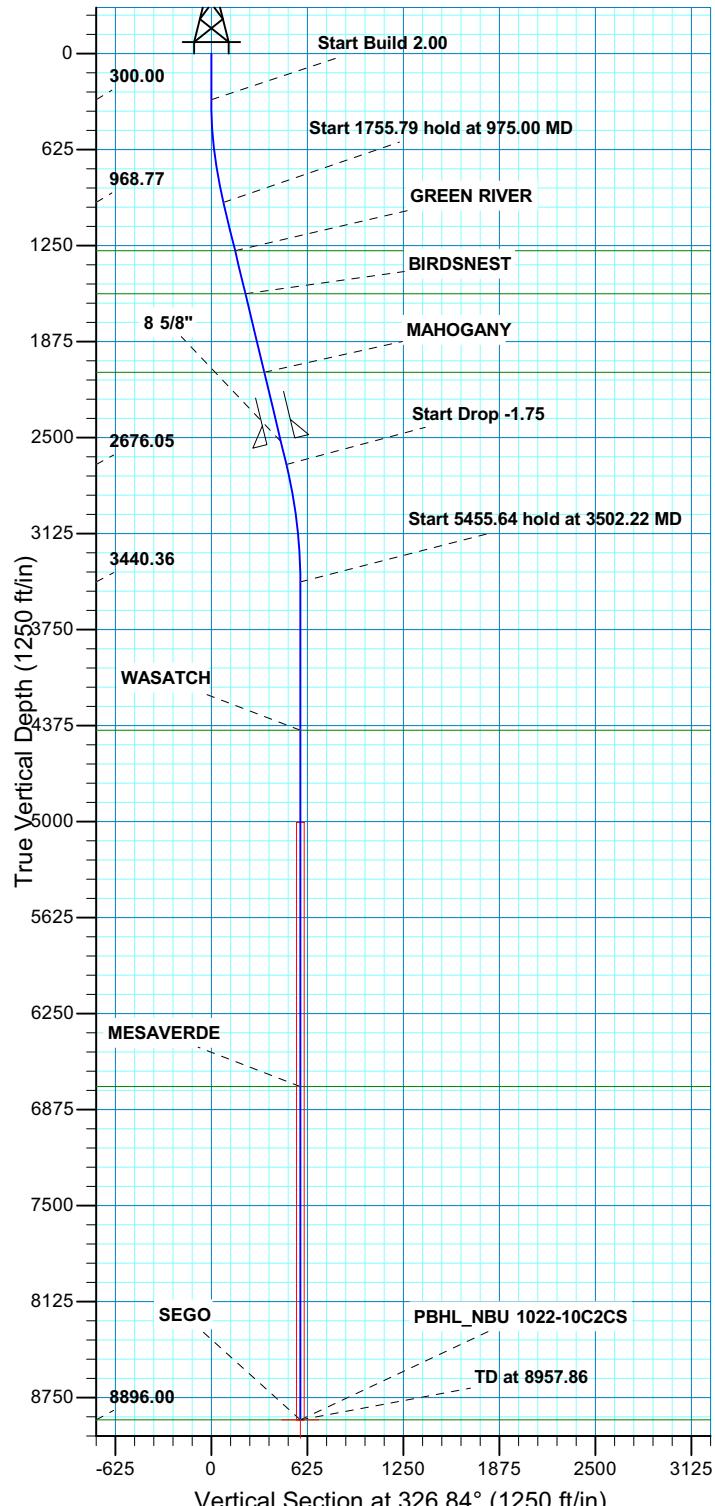
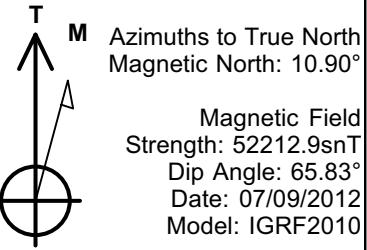
GL 5303 & KB 4 @ 5307.00ft (ASSUMED)

+N/S 0.00	+E/W 0.00	Northing 14518364.51	Easting 2080702.83	Latitude 39.968257	Longitude -109.428639
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DESIGN TARGET DETAILS

Name PBHL	TVD 8896.00	+N/S 485.13	+E/W -316.96	Northing 14518843.99	Easting 2080377.37	Latitude 39.969589	Longitude -109.429770	Shape Circle (Radius: 25.00)
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- plan hits target center



SECTION DETAILS								
MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00
975.00	13.50	326.84	968.77	66.27	-43.29	2.00	326.84	79.15
2730.79	13.50	326.84	2676.05	409.40	-267.48	0.00	0.00	489.04
3502.22	0.00	0.00	3440.36	485.13	-316.96	1.75	180.00	579.50
8957.86	0.00	0.00	8896.00	485.13	-316.96	0.00	0.00	579.50

PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N			FORMATION TOP DETAILS		
Geodetic System: Universal Transverse Mercator (US Survey Feet)			TVDPath	MDPath	Formation
Datum: NAD 1927 (NADCON CONUS)			1284.00	1299.19	GREEN RIVER
Ellipsoid: Clarke 1866			1564.00	1587.14	BIRDNEST
Zone: Zone 12N (114 W to 108 W)			2075.00	2112.66	MAHOGANY
Location: SECTION 10 T10S R22E			4406.00	4467.86	WASATCH
System Datum: Mean Sea Level			6726.00	6787.86	MESAVERDE
			8896.00	8957.86	SEGO

CASING DETAILS				
TVD	MD	Name	Size	
2525.00	2575.45	8 5/8"	8.625	

Plan: PLAN #1 PERMIT (NBU 1022-10C2CS/OH)

RECE Received: July 19, 2012



WELL DETAILS: NBU 1022-10C4CS

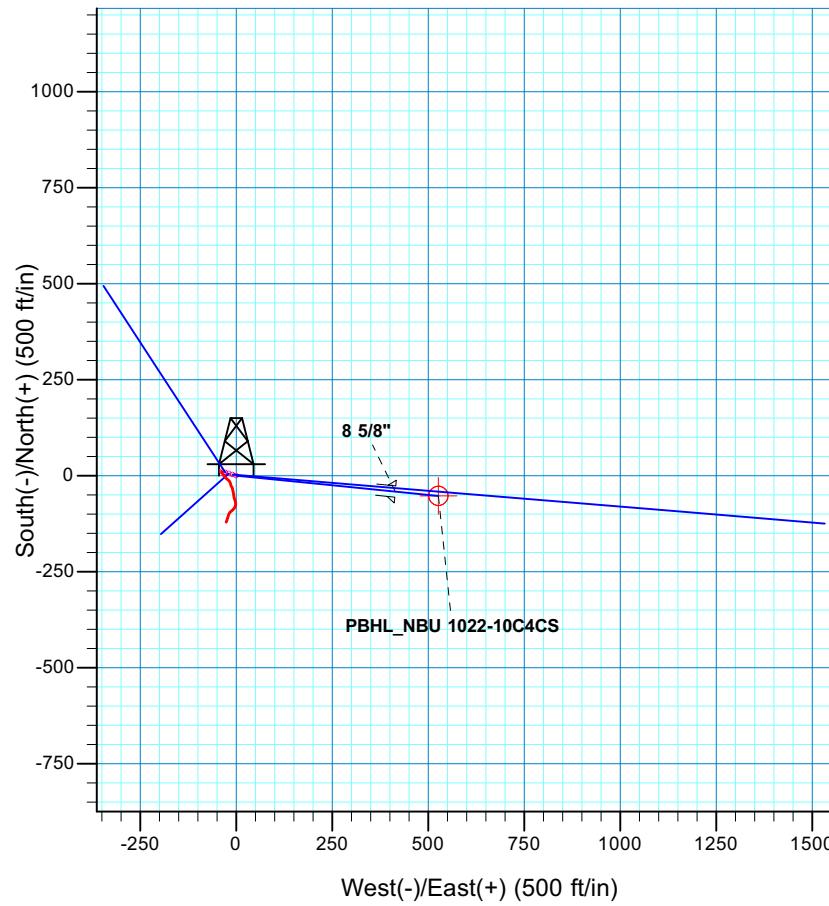
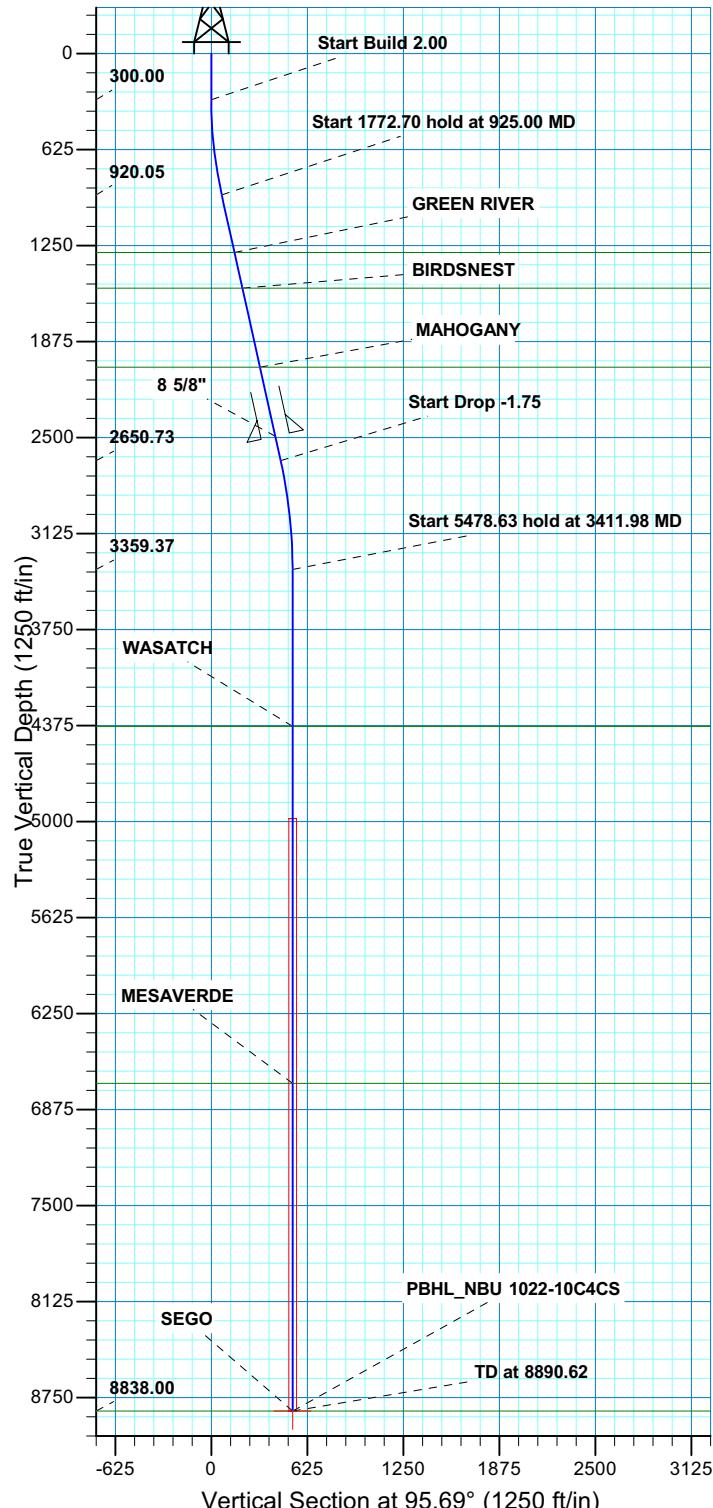
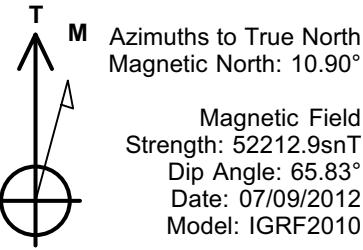
GL 5303 & KB 4 @ 5307.00ft (ASSUMED)

+N/S 0.00	+E/W 0.00	Northing 14518356.28	Easting 2080731.56	Latitude 39.968233	Longitude -109.428537
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DESIGN TARGET DETAILS

Name PBHL	TVD 8838.00	+N/S -52.44	+E/W 526.59	Northing 14518313.12	Easting 2081259.00	Latitude 39.968089	Longitude -109.426658	Shape Circle (Radius: 25.00)
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- plan hits target center



SECTION DETAILS								
MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00
925.00	12.50	95.69	920.05	-6.73	67.57	2.00	95.69	67.91
2697.70	12.50	95.69	2650.73	-44.75	449.37	0.00	0.00	451.59
3411.98	0.00	0.00	3359.37	-52.44	526.59	1.75	180.00	529.20
8890.62	0.00	0.00	8838.00	-52.44	526.59	0.00	0.00	529.20

PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N			FORMATION TOP DETAILS		
Geodetic System: Universal Transverse Mercator (US Survey Feet)			TVDPath	MDPath	Formation
Datum: NAD 1927 (NADCON CONUS)			1295.00	1309.05	GREEN RIVER
Ellipsoid: Clarke 1866			1528.00	1547.71	BIRDNEST
Zone: Zone 12N (114 W to 108 W)			2042.00	2074.19	MAHOGANY
Location: SECTION 10 T10S R22E			4380.00	4432.62	WASATCH
System Datum: Mean Sea Level			6704.00	6756.62	MESAVERDE
			8838.00	8890.62	SEGO

CASING DETAILS				
TVD 2492.00	MD 2535.11	Name 8 5/8"	Size 8.625	

Plan: PLAN #1 PERMIT (NBU 1022-10C4CS/OH)

RECE Received: July 19, 2012

Created By: Gale Marshall Date: 07/09/2012



WELL DETAILS: NBU 1022-10C3CS

GL 5303 & KB 4 @ 5307.00ft (ASSUMED)

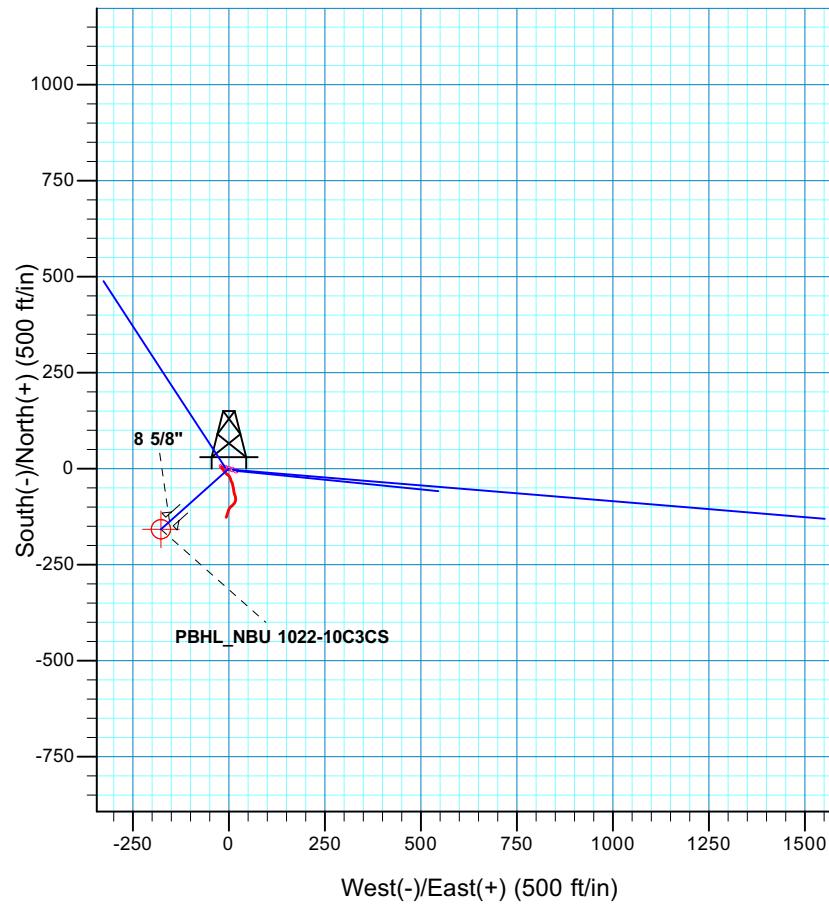
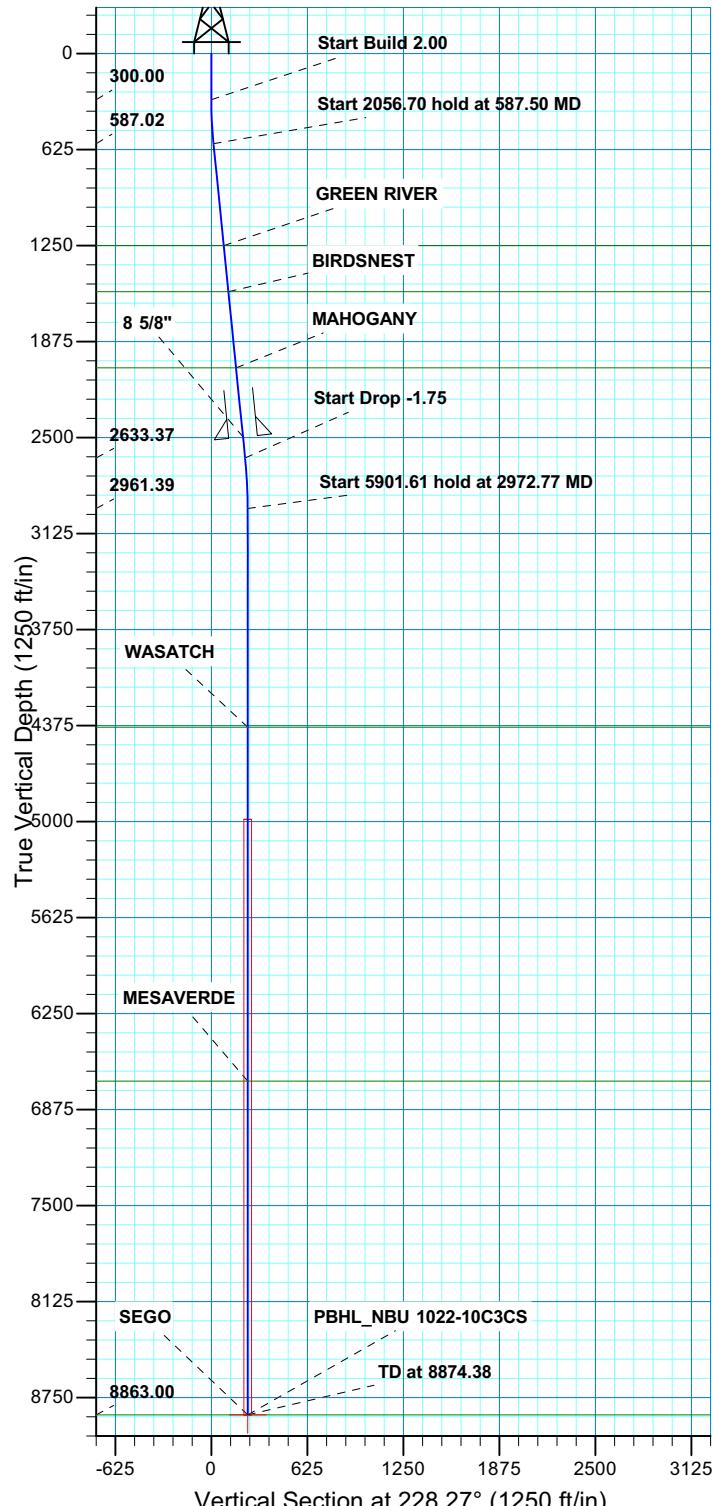
+N/S 0.00	+E/W 0.00	Northing 14518361.77	Easting 2080712.41	Latitude 39.968249	Longitude -109.428605
--------------	--------------	-------------------------	-----------------------	-----------------------	--------------------------

DESIGN TARGET DETAILS

Name PBHL	TVD 8863.00	+N/S -157.70	+E/W -176.84	Northing 14518200.97	Easting 2080538.37	Latitude 39.967816	Longitude -109.429236	Shape Circle (Radius: 25.00)
--------------	----------------	-----------------	-----------------	-------------------------	-----------------------	-----------------------	--------------------------	---------------------------------

- plan hits target center

T Azimuths to True North
M Magnetic North: 10.90°
 Magnetic Field Strength: 52212.9nT
 Dip Angle: 65.83°
 Date: 07/09/2012
 Model: IGRF2010



SECTION DETAILS								
MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00
587.50	5.75	228.27	587.02	-9.59	-10.76	2.00	228.27	14.41
2644.20	5.75	228.27	2633.37	-146.74	-164.54	0.00	0.00	220.47
2972.77	0.00	0.00	2961.39	-157.70	-176.84	1.75	180.00	236.94
8874.38	0.00	0.00	8863.00	-157.70	-176.84	0.00	0.00	236.94
PBHL_NBU 1022-10C3CS								

PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N			FORMATION TOP DETAILS		
Geodetic System: Universal Transverse Mercator (US Survey Feet)			Formation		
Datum: NAD 1927 (NADCON CONUS)			GREEN RIVER		
Ellipsoid: Clarke 1866			BIRDSNEST		
Zone: Zone 12N (114 W to 108 W)			MAHOGANY		
Location: SECTION 10 T10S R22E			WASATCH		
System Datum: Mean Sea Level			MESAVERDE		
			SEGO		

CASING DETAILS				
TVD	MD	Name	Size	
2497.00	2507.14	8 5/8"	8.625	

Plan: PLAN #1 PERMIT (NBU 1022-10C3CS/OH)

RECE Received: July 19, 2012

Created By: Gale Marshall Date: 07/09/2012

From: Jeff Conley
To: Hill, Brad; Mason, Diana
CC: Bonner, Ed; Davis, Jim; Garrison, LaVonne; danielle.piernot@anadarko.com
Date: 8/21/2012 3:02 PM
Subject: Anadarko APD Approvals

Greetings,

The following wells have been approved by SITLA:

Arch and Paleo Clearance granted on:
NBU 1022-10A1BS (4304752994)
NBU 1022-10A4CS (4304752995)
NBU 1022-10B3DS (4304752996)
NBU 1022-10C2CS (4304752997)
NBU 1022-10C4CS (4304752998)
NBU 1022-10C3CS (4304752999)

Thanks,

Jeff Conley
SITLA Resource Specialist
(801)-538-5157
jconley@utah.gov

BOPE REVIEW KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 1022-10C3CS 43047529990000

Well Name	KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 1022-10C3CS 4304752			
String	SURF	PROD		
Casing Size("")	8.625	4.500		
Setting Depth (TVD)	2500	8863		
Previous Shoe Setting Depth (TVD)	0	2500		
Max Mud Weight (ppg)	8.3	12.0		
BOPE Proposed (psi)	500	5000		
Casing Internal Yield (psi)	3390	7780		
Operators Max Anticipated Pressure (psi)	5406	11.7		

Calculations	SURF String	8.625	"	
Max BHP (psi)	.052*Setting Depth*MW=	1079		BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	779	NO	air/mist system, air bowl
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	529	NO	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	529	NO	*Can Full Expected Pressure Be Held At Previous Shoe? Reasonable depth in area
Required Casing/BOPE Test Pressure=		2373	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi	*Assumes 1psi/ft frac gradient

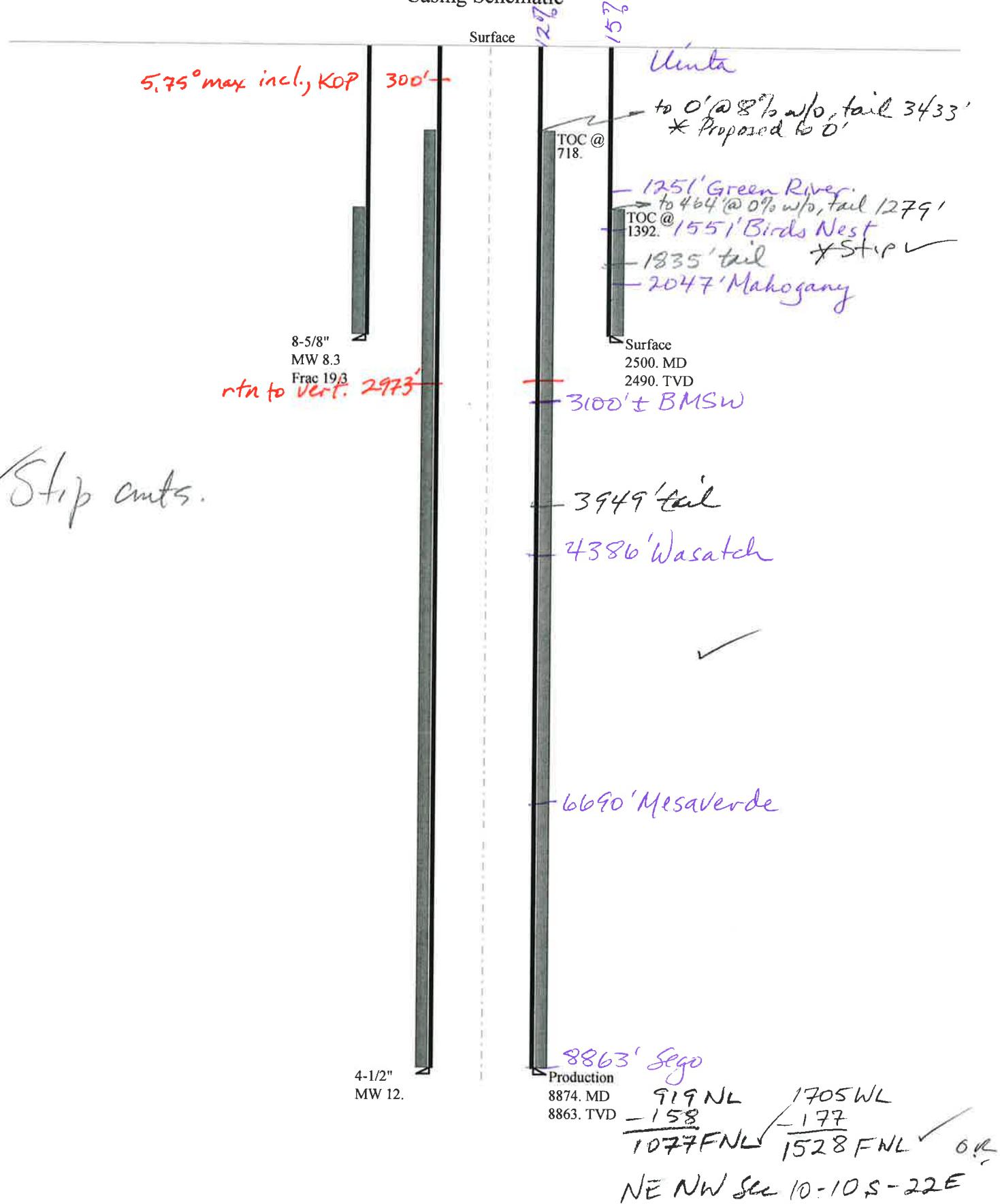
Calculations	PROD String	4.500	"	
Max BHP (psi)	.052*Setting Depth*MW=	5531		BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	4467	YES	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3581	YES	OK
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	4131	NO	*Can Full Expected Pressure Be Held At Previous Shoe? Reasonable
Required Casing/BOPE Test Pressure=		5000	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		2500	psi	*Assumes 1psi/ft frac gradient

Calculations	String		"	
Max BHP (psi)	.052*Setting Depth*MW=			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO	*Can Full Expected Pressure Be Held At Previous Shoe?
Required Casing/BOPE Test Pressure=			psi	
*Max Pressure Allowed @ Previous Casing Shoe=			psi	*Assumes 1psi/ft frac gradient

Calculations	String		"	
Max BHP (psi)	.052*Setting Depth*MW=			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO	*Can Full Expected Pressure Be Held At Previous Shoe?
Required Casing/BOPE Test Pressure=			psi	
*Max Pressure Allowed @ Previous Casing Shoe=			psi	*Assumes 1psi/ft frac gradient

43047529990000 NBU 1022-10C3CS

Casing Schematic



Well name:	43047529990000 NBU 1022-10C3CS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Surface		
Location:	UINTAH COUNTY		

Design parameters:		Minimum design factors:		Environment:	
Collapse		Collapse:		H2S considered?	
Mud weight:	8.300 ppg	Design factor	1.125	No	
Design is based on evacuated pipe.				Surface temperature:	74 °F
		Burst:		Bottom hole temperature:	109 °F
		Design factor	1.00	Temperature gradient:	1.40 °F/100ft
Burst				Minimum section length:	100 ft
Max anticipated surface pressure:		2,191 psi		Cement top:	
Internal gradient:		0.120 psi/ft		1,392 ft	
Calculated BHP		2,490 psi			
No backup mud specified.					
		Tension:		Directional Info - Build & Drop	
		8 Round STC:	1.80 (J)	Kick-off point	300 ft
		8 Round LTC:	1.70 (J)	Departure at shoe:	206 ft
		Buttress:	1.60 (J)	Maximum dogleg:	2 °/100ft
		Premium:	1.50 (J)	Inclination at shoe:	5.75 °
		Body yield:	1.50 (B)	Re subsequent strings:	
		Tension is based on air weight.		Next setting depth:	8,863 ft
		Neutral point: 2,194 ft		Next mud weight:	12,000 ppg
				Next setting BHP:	5,525 psi
				Fracture mud wt:	19,250 ppg
				Fracture depth:	2,490 ft
				Injection pressure:	2,490 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2500	8.625	28.00	I-55	LT&C	2490	2500	7.892	99000
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1074	1880	1.751	2490	3390	1.36	69.7	348	4.99 J

Prepared Helen Sadik-Macdonald
by: Div of Oil,Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: November 5,2012
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2490 ft, a mud weight of 8.3 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Well name:	43047529990000 NBU 1022-10C3CS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Production		
Location:	UINTAH COUNTY		

Design parameters:**Collapse**

Mud weight: 12.000 ppg
Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 3,575 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 5,525 psi

No backup mud specified.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 198 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Cement top: 718 ft

Directional Info - Build & Drop

Kick-off point 300 ft
Departure at shoe: 237 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 0 °

Tension is based on air weight.

Neutral point: 7,284 ft

Estimated cost: 183,137 (\$)

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
2	5000	4.5	11.60	I-80	DQX	4989	5000	3.875	132000
1	3874	4.5	11.60	I-80	LT&C	8863	8874	3.875	51137

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
2	3110	5988	1.925	4672	7780	1.67	102.8	267	2.60 J
1	5525	6360	1.151	5525	7780	1.41	44.9	212	4.72 J

Prepared Helen Sadik-Macdonald
by: Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: November 5, 2012
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 8863 ft, a mud weight of 12 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for狗legs in directional wells by multiplying the tensile stress by the cross section area to calculate a

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator KERR-MCGEE OIL & GAS ONSHORE, L.P.
Well Name NBU 1022-10C3CS
API Number 43047529990000 **APD No** 6462 **Field/Unit** NATURAL BUTTES
Location: 1/4,1/4 NENW **Sec** 10 **Tw** 10.0S **Rng** 22.0E 919 FNL 1705 FWL
GPS Coord (UTM) 634137 4425402 **Surface Owner**

Participants

Danielle Piernot, Doyle Holmes, Charles Chase, (Anadarko); Jeff Conley, Jim Davis, (SITLA); Mitch Batty, Wes Wood, (Timberline); David Hackford, (DOGM).

Regional/Local Setting & Topography

The general area is in the southeast portion of the Natural Buttes Unit, which contains the White River and rugged drainages that drain into the White River. Topography is varied and frequently dissected by short draws or washes, which become overly steep as they approach the White River breaks or rim. The White River is 3/4 mile to the east. The side drainages are dry except for ephemeral flows. No seeps or springs exist in the area. An occasional pond has been constructed to supply water for livestock and antelope. Vernal, Utah is approximately 45 air miles to the northwest. Access from Vernal is approximately 56.4 road miles following Utah State, Uintah County and oilfield development roads to the location.

Both the surface and minerals are owned by SITLA.

Surface Use Plan

Current Surface Use

Grazing
Wildlife Habitat
Existing Well Pad

New Road Miles	Well Pad	Src Const Material	Surface Formation
0	Width 292 Length 400	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Area beyond the existing pad is poorly vegetated with greasewood, cheatgrass, black sagebrush, broom snakeweed, Sitanion hystrrix , shadscale, pepper weed, halogoton and annuals.

Sheep, deer, antelope, coyote, and other small mammals and birds.

Soil Type and Characteristics

Rocky sandy clay loam.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required? N

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? Y **Paleo Potential Observed?** N **Cultural Survey Run?** Y **Cultural Resources?** N

Reserve Pit

Site-Specific Factors		Site Ranking
Distance to Groundwater (feet)	100 to 200	5
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)		20
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations		
Presence Nearby Utility Conduits	Not Present	0
	Final Score	40 1 Sensitivity Level

Characteristics / Requirements

Reserve pit will be located on the north side of the location and will be 235' long and 80' wide and 12' deep. It will be lined with a plastic liner and also a felt sub-liner. The east side of pit will be in cut, and the west side will be in as much as 5.2' of fill.

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 30 **Pit Underlayment Required?** Y

Other Observations / Comments

David Hackford
Evaluator

8/7/2012
Date / Time

Application for Permit to Drill

Statement of Basis

Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner CBM
6462	43047529990000	LOCKED	GW	S No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.			
Well Name	NBU 1022-10C3CS			
Field	NATURAL BUTTES			
Location	NENW 10 10S 22E S 919 FNL 1705 FWL GPS Coord (UTM) 634137E 4425398N			

Geologic Statement of Basis

Kerr McGee proposes to set 2,500' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 3,100'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the proposed location. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Production casing cement should be brought up above the base of the moderately saline ground water to isolate it from fresher waters uphole.

Brad Hill
APD Evaluator

11/1/2012
Date / Time

Surface Statement of Basis

The general area is in the southeast portion of the Natural Buttes Unit, which contains the White River and rugged drainages that drain into the White River. Topography is varied and frequently dissected by short draws or washes, which become overly steep as they approach the White River breaks or rim. An occasional pond has been constructed to supply water for livestock and antelope.

The pad of the existing NBU 207 producing gas well is proposed to be enlarged for an additional 4 wells. They are the NBU 1022-10B3DS, NBU 1022-10C2CS, NBU 1022-10C3CS and the NBU 1022-10C4CS. Bitter Creek, which is an ephemeral drainage, enters the White River 3/4 mile to the east. The existing pad shows no stability problems. It is expected that the location including the reserve pit should be stable and it is the only suitable site in the area.

Both the surface and minerals are owned by SITLA. Jim Davis and Jeff Conley of SITLA attended the presite and were agreeable to the modifications. They had no additional concerns regarding the proposal.

Utah Division of Wildlife Resources personnel were invited to the presite, but did not attend.

David Hackford
Onsite Evaluator

8/7/2012
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
----------	-----------

- Pits A synthetic liner with a minimum thickness of 30 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
- Pits The reserve pit should be located on the north side of the location.

WORKSHEET

APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 7/19/2012

API NO. ASSIGNED: 43047529990000

WELL NAME: NBU 1022-10C3CS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995)

PHONE NUMBER: 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: NENW 10 100S 220E

Permit Tech Review:

SURFACE: 0919 FNL 1705 FWL

Engineering Review:

BOTTOM: 1079 FNL 1528 FWL

Geology Review:

COUNTY: UNTAH

LATITUDE: 39.96811

LONGITUDE: -109.42933

UTM SURF EASTINGS: 634137.00

NORTHINGS: 4425398.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 3 - State

LEASE NUMBER: UO 01197

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 3 - State

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED: PLAT Bond: STATE - 22013542 Potash Oil Shale 190-5 Oil Shale 190-3 Oil Shale 190-13 Water Permit: 43-8496 RDCC Review: Fee Surface Agreement Intent to Commingle

Commingling Approved

LOCATION AND SITING: R649-2-3.

Unit: NATURAL BUTTES

 R649-3-2. General R649-3-3. Exception Drilling Unit

Board Cause No: Cause 173-14

Effective Date: 12/2/1999

Siting: Suspends General Siting

 R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations:

- 3 - Commingling - ddoucet
- 5 - Statement of Basis - bhill
- 15 - Directional - dmason
- 17 - Oil Shale 190-5(b) - dmason
- 25 - Surface Casing - hmacdonald



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 1022-10C3CS

API Well Number: 43047529990000

Lease Number: UO 01197

Surface Owner: STATE

Approval Date: 11/8/2012

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:

In accordance with Board Cause No. 173-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Surface casing shall be cemented to the surface.

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan - contact Dustin Doucet
- Significant plug back of the well - contact Dustin Doucet
- Plug and abandonment of the well - contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
at <http://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program
 - contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well - contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or

plugging

Approved By:

A handwritten signature in black ink, appearing to read "John Rogers".

For John Rogers
Associate Director, Oil & Gas

FORM 9

STATE OF UTAH
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL

Gas Well

2. NAME OF OPERATOR:

KERR-MCGEE OIL & GAS ONSHORE, L.P.

3. ADDRESS OF OPERATOR:

P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:

720 929-6

9. FIELD and POOL or WILDCAT:

NATURAL BUTTES

4. LOCATION OF WELL**FOOTAGES AT SURFACE:**

0919 FNL 1705 FWL

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

Qtr/Qtr: NENW Section: 10 Township: 10.0S Range: 22.0E Meridian: S

COUNTY:

UINTAH

STATE:

UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 6/21/2013			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Spud well 06/21/2013 @ 15:00. MIRU Triple A Bucket Rig, drill 20" conductor hole to 40', run 14", 36.7# schedule 10 conductor pipe, cement with 28 sacks ready mix. Anticipated surface spud date and surface casing cement 07/05/2013.

Accepted by the
 Utah Division of
 Oil, Gas and Mining

FOR RECORD ONLY

June 24, 2013

NAME (PLEASE PRINT) Doreen Green	PHONE NUMBER 435 781-9758	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 6/24/2013	

FORM 9

STATE OF UTAH
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL

Gas Well

2. NAME OF OPERATOR:

KERR-MCGEE OIL & GAS ONSHORE, L.P.

3. ADDRESS OF OPERATOR:

P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:

720 929-6

9. FIELD and POOL or WILDCAT:

NATURAL BUTTES

4. LOCATION OF WELL**FOOTAGES AT SURFACE:**

0919 FNL 1705 FWL

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

Qtr/Qtr: NENW Section: 10 Township: 10.0S Range: 22.0E Meridian: S

COUNTY:

UINTAH

STATE:

UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 8/5/2013			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Drilled to 8,876 ft. in July 2013.

Accepted by the
 Utah Division of
 Oil, Gas and Mining

FOR RECORD ONLY

August 05, 2013

NAME (PLEASE PRINT) Teena Paulo	PHONE NUMBER 720 929-6236	TITLE Staff Regulatory Specialist
SIGNATURE N/A	DATE 8/5/2013	

STATE OF UTAH
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL

Gas Well

2. NAME OF OPERATOR:

KERR-MCGEE OIL & GAS ONSHORE, L.P.

3. ADDRESS OF OPERATOR:

P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:

720 929-6

9. FIELD and POOL or WILDCAT:

NATURAL BUTTES

4. LOCATION OF WELL**FOOTAGES AT SURFACE:**

0919 FNL 1705 FWL

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

Qtr/Qtr: NENW Section: 10 Township: 10.0S Range: 22.0E Meridian: S

COUNTY:

UINTAH

STATE:

UTAH

11.

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TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/4/2013			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

No activity for the month of August 2013. Well TD at 8,876 ft.

Accepted by the
 Utah Division of
 Oil, Gas and Mining

FOR RECORD ONLY

September 04, 2013

NAME (PLEASE PRINT) Matthew P Wold	PHONE NUMBER 720 929-6993	TITLE Regulatory Analyst I
SIGNATURE N/A	DATE 9/4/2013	

FORM 9

STATE OF UTAH
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL

Gas Well

2. NAME OF OPERATOR:

KERR-MCGEE OIL & GAS ONSHORE, L.P.

3. ADDRESS OF OPERATOR:

P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:

720 929-6

9. FIELD and POOL or WILDCAT:

NATURAL BUTTES

4. LOCATION OF WELL**FOOTAGES AT SURFACE:**

0919 FNL 1705 FWL

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

Qtr/Qtr: NENW Section: 10 Township: 10.0S Range: 22.0E Meridian: S

COUNTY:

UINTAH

STATE:

UTAH

11.

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<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/4/2013			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Started completing the well. Well TD at 8,876 ft.

Accepted by the
 Utah Division of
 Oil, Gas and Mining

FOR RECORD ONLY

October 07, 2013

NAME (PLEASE PRINT) Teena Paulo	PHONE NUMBER 720 929-6236	TITLE Staff Regulatory Specialist
SIGNATURE N/A	DATE 10/4/2013	

STATE OF UTAH
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

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1. TYPE OF WELL

Gas Well

2. NAME OF OPERATOR:

KERR-MCGEE OIL & GAS ONSHORE, L.P.

3. ADDRESS OF OPERATOR:

P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:

720 929-6

9. FIELD and POOL or WILDCAT:

NATURAL BUTTES

4. LOCATION OF WELL**FOOTAGES AT SURFACE:**

0919 FNL 1705 FWL

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

Qtr/Qtr: NENW Section: 10 Township: 10.0S Range: 22.0E Meridian: S

COUNTY:

UINTAH

STATE:

UTAH

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TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/9/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: _____

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 10/09/2013. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.

Accepted by the
 Utah Division of
 Oil, Gas and Mining

FOR RECORD ONLY

October 15, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Kay E. Kelly	720 929 6582	Regulatory Analyst
SIGNATURE	DATE	
N/A	10/10/2013	

STATE OF UTAH
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

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1. TYPE OF WELL

Gas Well

2. NAME OF OPERATOR:

KERR-MCGEE OIL & GAS ONSHORE, L.P.

3. ADDRESS OF OPERATOR:

P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:

720 929-6

9. FIELD and POOL or WILDCAT:

NATURAL BUTTES

4. LOCATION OF WELL**FOOTAGES AT SURFACE:**

0919 FNL 1705 FWL

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

Qtr/Qtr: NENW Section: 10 Township: 10.0S Range: 22.0E Meridian: S

COUNTY:

UINTAH

STATE:

UTAH

11.

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<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 11/26/2013			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

FINISHED DRILLING TO 8876 ON 7/26/2013. CEMENTED PRODUCTION

CASING. RELEASED H&P 298 RIG ON 7/28/2013. DETAILS OF CASING
AND CEMENT WAS INCLUDED WITH THE WELL COMPLETION REPORT.

Accepted by the
 Utah Division of
 Oil, Gas and Mining

FOR RECORD ONLY

November 27, 2013

NAME (PLEASE PRINT) Teena Paulo	PHONE NUMBER 720 929-6236	TITLE Staff Regulatory Specialist
SIGNATURE N/A		DATE 11/26/2013

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT FORM 8
 (highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:

UT ST UO 01197 ST

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

UTU64037A

8. WELL NAME and NUMBER:

NBU 1022-10C3CS

9. API NUMBER:

43-047-52999

10 FIELD AND POOL, OR WILDCAT

Natural Buttes

11. QTR/QTR, SECTION, TOWNSHIP, RANGE,
MERIDIAN:

NENW 10 10S 22E SLB

12. COUNTY

UINTAH

UTAH

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL GAS WELL DRY OTHER _____

b. TYPE OF WORK: NEW WELL HORIZ. LATS. DEEP-EN. RE-ENTRY DIFF. RESVR. OTHER _____

2. NAME OF OPERATOR:

KERR-MCGEE OIL AND GAS ONSHORE LP

3. ADDRESS OF OPERATOR:
 P.O. Box 173779 CITY Denver STATE Co ZIP 82017 PHONE NUMBER: 720-929-6000

4. LOCATION OF WELL (FOOTAGES)

AT SURFACE: NENW 919 FNL 1705 FWL

AT TOP PRODUCING INTERVAL REPORTED BELOW: NENW 1065 FNL 1517 FWL

AT TOTAL DEPTH: NENW 1069 FNL 1541 FWL

14. DATE SPUPPED: 15. DATE T. D. REACHED: 16. DATE COMPLETED:

6/21/2013

7/26/2013

10/9/2013

ABANDONED

READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):

5328 RKB

18. TOTAL DEPTH: MD 8876 19. PLUG BACK T.D.: MD 8810 20. IF MULTIPLE COMPLETIONS, HOW MANY? *

MD

8876

MD

8810

21. DEPTH BRIDGE PLUG SET:

MD

TVD

TVD

8864

TVD

8798

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

SD/DSN/ACTR-BHV-CBL/GR/CCL/TEMP

23

WAS WELL CORED?

NC

YES

(Submit analysis)

WAS DST RUN?

NC

YES

(Submit report)

DIRECTIONAL SURVEY?

NC

YES

(Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20	14 STL	36.7	0	40		28			
11	8.625 J-55	28	26	2553		1075		0	
7.875	4.5 I-80	11.6	26	4946		1540		600	
7.875	4.5 P-110	11.6	4946	8855					

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.375	8305							

26. PRODUCING INTERVALS

27. PERFORATION RECORD

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) MESAVERDE	7315	8794			7,315 8,794	0.36	140	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INERVAL	AMOUNT AND TYPE OF MATERIAL
7315-8794	PUMP 8,014 BBL SLICKWATER AND 159,549 LBS 30/50 MESH SAND
	7 STAGES

29. ENCLOSED ATTACHMENTS:

ELECTRICAL/MECHANICAL LOGS

GEOLOGICAL REPORT

DST REPORT

DIRECTIONAL SURVEY

SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION

CORE ANALYSIS

OTHER:

30. WELL STATUS:

PRODUCING

(CONTINUED ON BACK)

(5/2000)

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:		TEST PRODUCTION	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:		
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS
10/9/2013	10/15/2013	24				11	11	2304	0	Flowing
20/64	1480	2226				RATES: →	RATES: →			Producing

INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:		TEST PRODUCTION	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:		
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS

INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:		TEST PRODUCTION	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:		
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS

INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:		TEST PRODUCTION	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:		
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

SOLD

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER	1250
				BIRD'S NEST	1618
				MAHOGANY	2069
				WASATCH	4432
				MESAVERDE	6725

35. ADDITIONAL REMARKS (Include plugging procedures)

The first 210 ft. of the surface hole was drilled with a 12 1/4 in. bit. The remainder of surface hole was drilled with an 11 in. bit. DQX csg was run from surface to 4946 ft.; LTC csg was run from 4946 ft. to 8855 ft. Attached is the chronological well history, perforation report & final survey.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Teena PauloTITLE Staff Regulatory SpecialistSIGNATURE DATE 11-1-2013

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
 1594 West North Temple, Suite 1210
 Box 145801
 Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

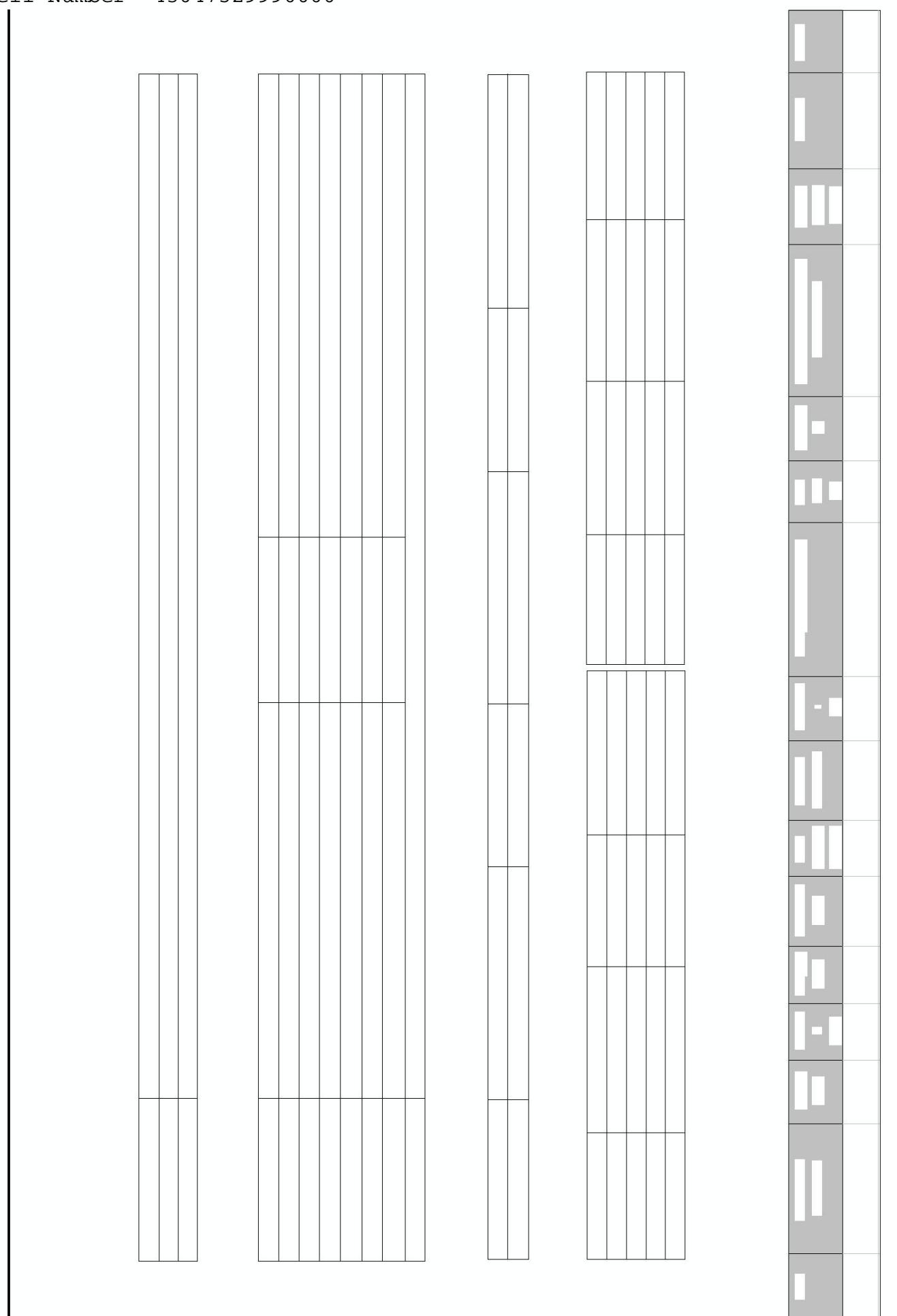
Fax: 801-359-3940

(5/2000)

RECEIVED: Nov. 01, 2013

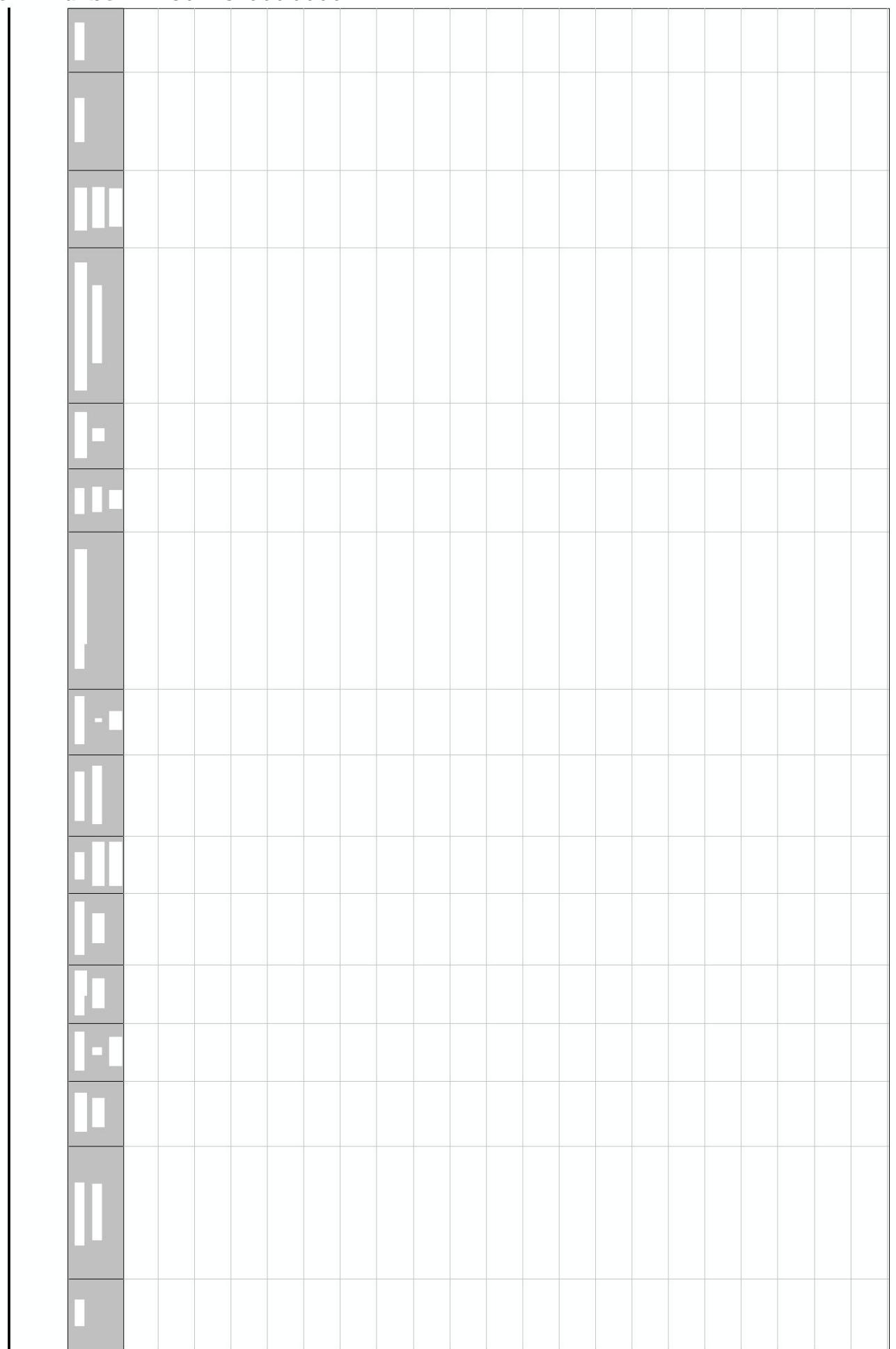
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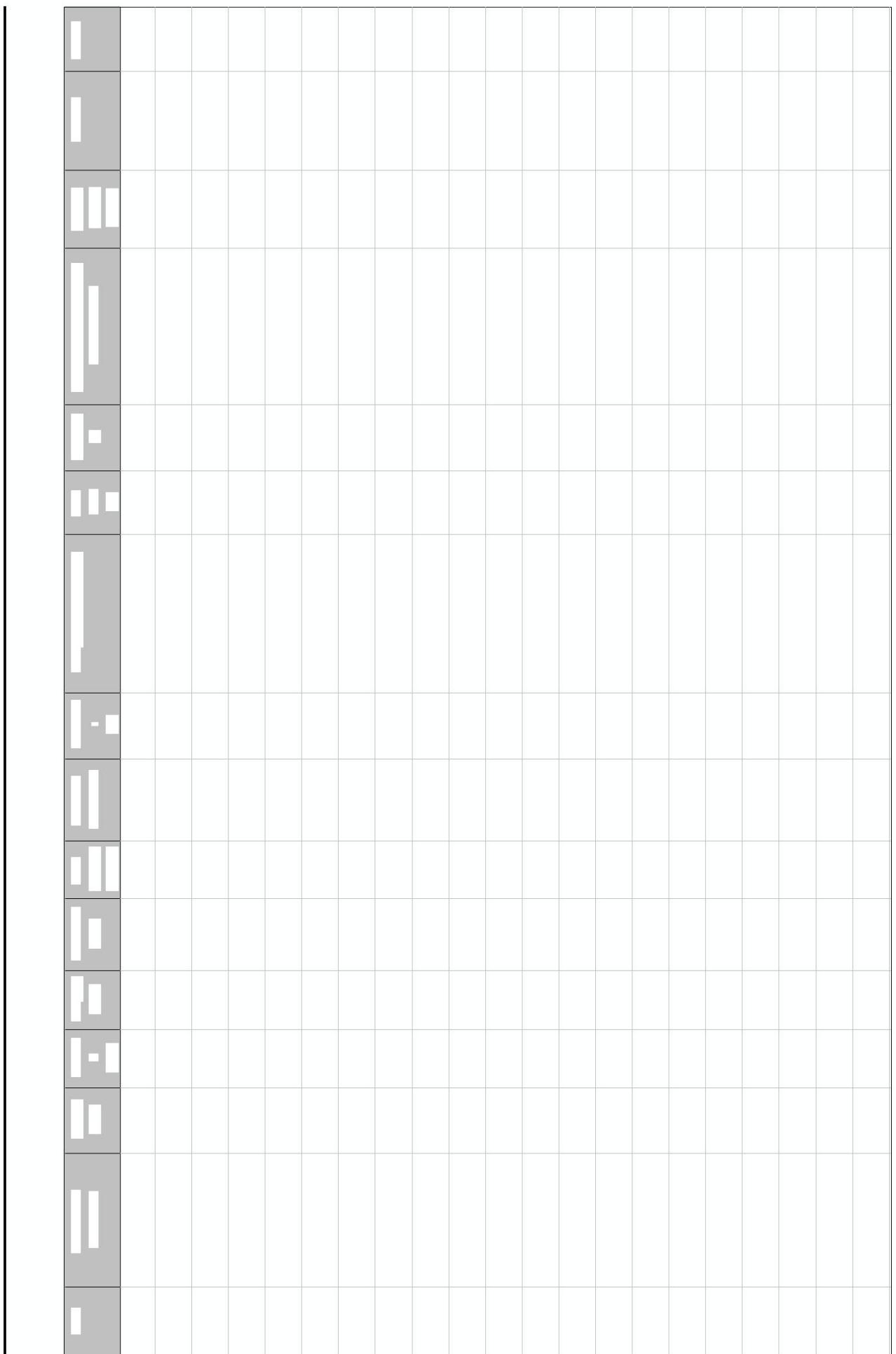


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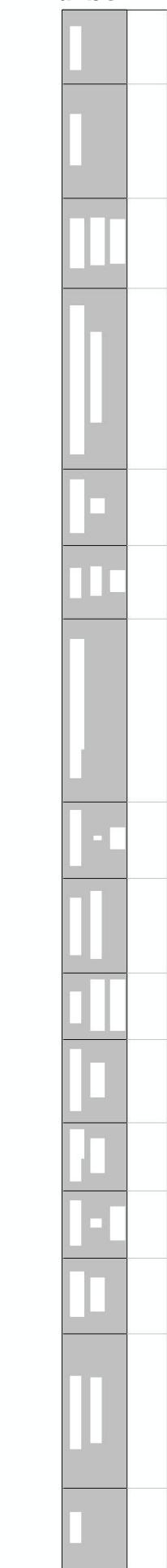
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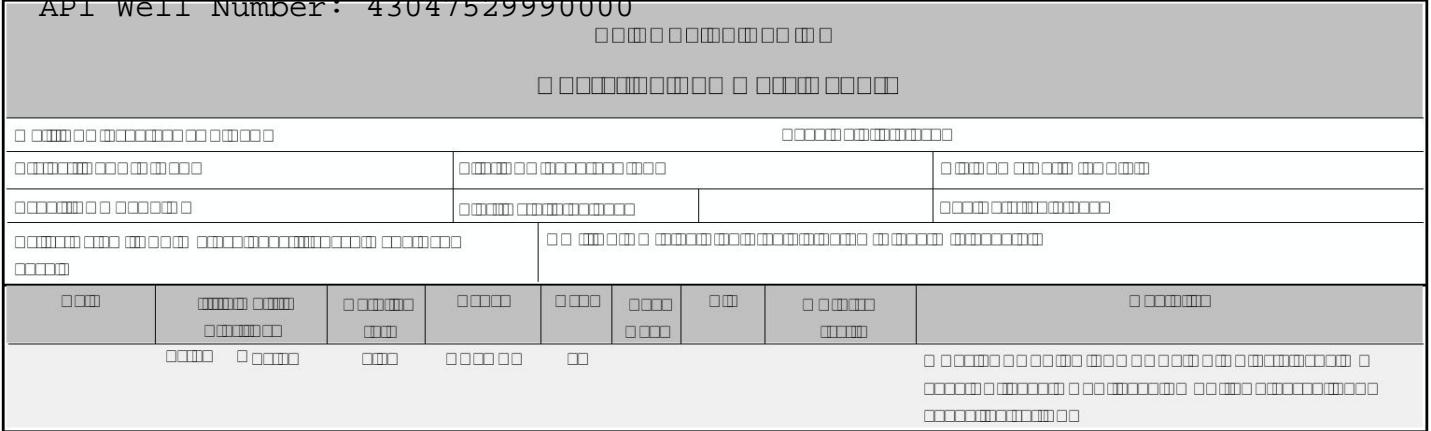


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Plan Data for NBU 1022-10C3CS

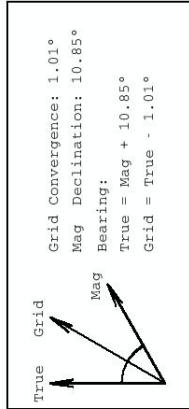
API Well Number: 430475299

Field: NATURAL BUTTES ANADARKO_NBU 1022 10C PAD
Map Unit: US Feet **Vertical Reference Datum (VRD):** Projected Coordinate System: NAD27 / UTM Zone 12N
Unit: USFeet **TVD Reference:**
Company Name: ANADARKO
Position: Northing: 14518364.54USFT Latitude: 39.968257°
 Easting: 2080702.83USFT Longitude: 109.42866°
 North Reference: True Grid Convergence: 1.01°
 Elevation Above VRD: 5304.00USFT

Slot: NBU 1022-10C3CS

Well: NBU 1022-10C3CS
Type: Main-Well
Offset: Is from Site centre
File Number:
Vertical Section: Position offset of origin from Slot centre:
 +N/-S: -2.91USFT Northing: 14518361.89USFT Latitude: 39.968249°
 +E/-W: 9.53USFT Easting: 2080712.41USFT Longitude: -109.42866°
 Elevation Above VRD: 5304.00USFT

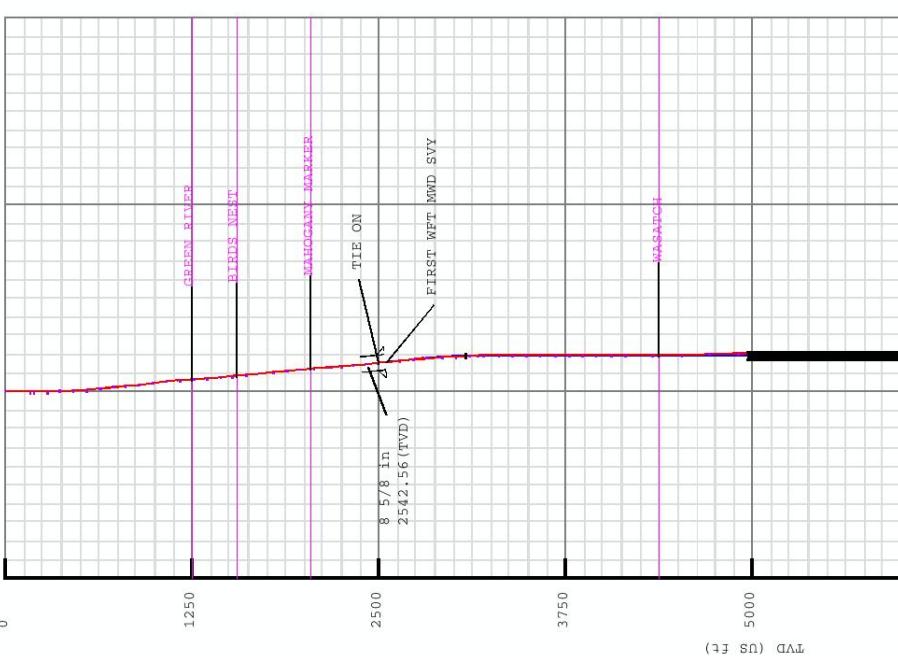
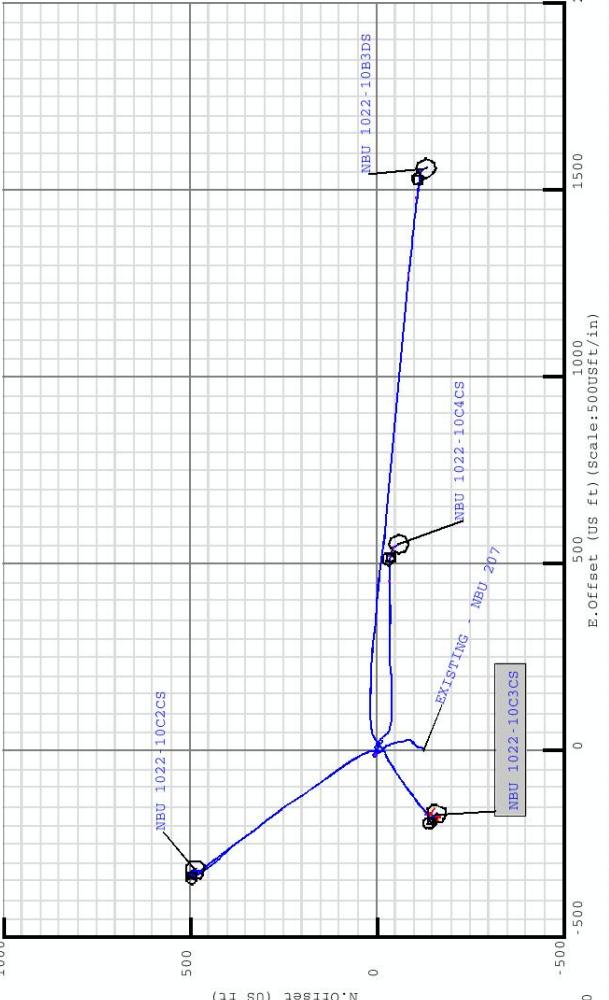
Well: NBU 1022-10C3CS
Type: Main-Well
Offset: Is from Site centre
File Number:
Vertical Section: Position offset of origin from Slot centre:
 +N/-S: 2.91USFT Northing: 14518361.89USFT Latitude: 39.968249°
 +E/-W: -9.53USFT Easting: 2080712.41USFT Longitude: -109.42866°
 Elevation Above VRD: 5304.00USFT



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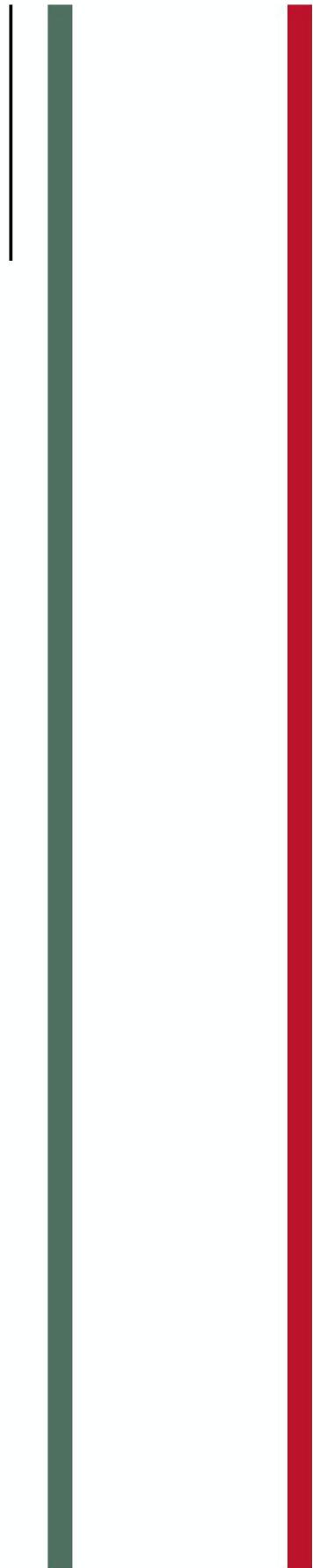
Survey Point Information:
 Dogleg Severity Unit: °/100.00ft Position offsets from Slot centre
 MD Inc Az TVD +E/W VSCC DLS Toolface Build Turn Annotations
 (USFT) (°) (USFT) (USFT) (USFT) (USFT) (USFT) (USFT)
 2512.00 5.89 230.85 2502.77 -112.34 -157.33 191.30 0.86 5.0 0.86 0.73 TIE ON
 2566.00 5.95 231.92 2556.48 -115.82 -161.68 196.84 0.24 62.5 0.11 2.02 FIRST WFT MWD SVY
 8826.00 1.93 119.24 8813.71 -149.19 -165.03 222.36 0.17 300.9 0.10 -4.31 LAST WFT MWD SVY
 8876.00 1.93 119.24 8863.68 -150.01 -163.56 221.87 0.00 0.00 0.00 PROJECTION TO TD

Formation Point Information:
 Name TVD Elevation MD Annotations
 Name (USft) (USft) (USft) (USft)
 PBHL 38863.00 39.967816 -109.429236
 25' CYL 6924.50 39.967816 -109.429236
 INTERCEPT 4986.00 39.967854 -109.429309
 DRILLERS TGT 3095.17 39.967869 -109.429327
 GREEN RIVER 1251.00 4079.00 1255.16
 BIRDS NEST 1551.00 3779.00 1556.15
 MAHOGANY MARKER 2047.00 3283.00 2054.49
 WASATCH 3865.00 944.00 4397.34
 MESA VERDE 6620.00 -1360.00 6701.36
 SEGO 8863.00 -3533.00 8874.38



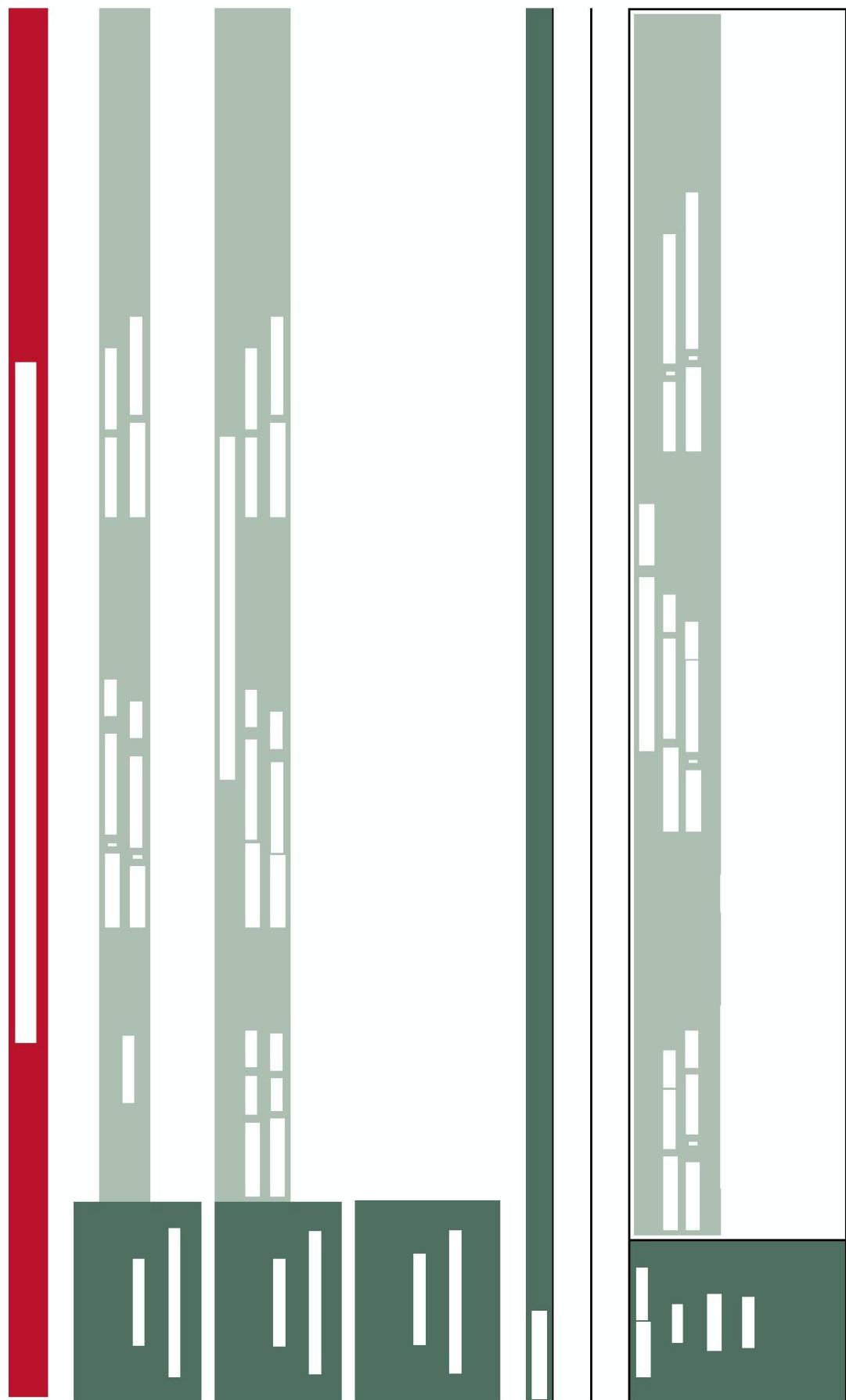
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API Well Number: 43047529990000

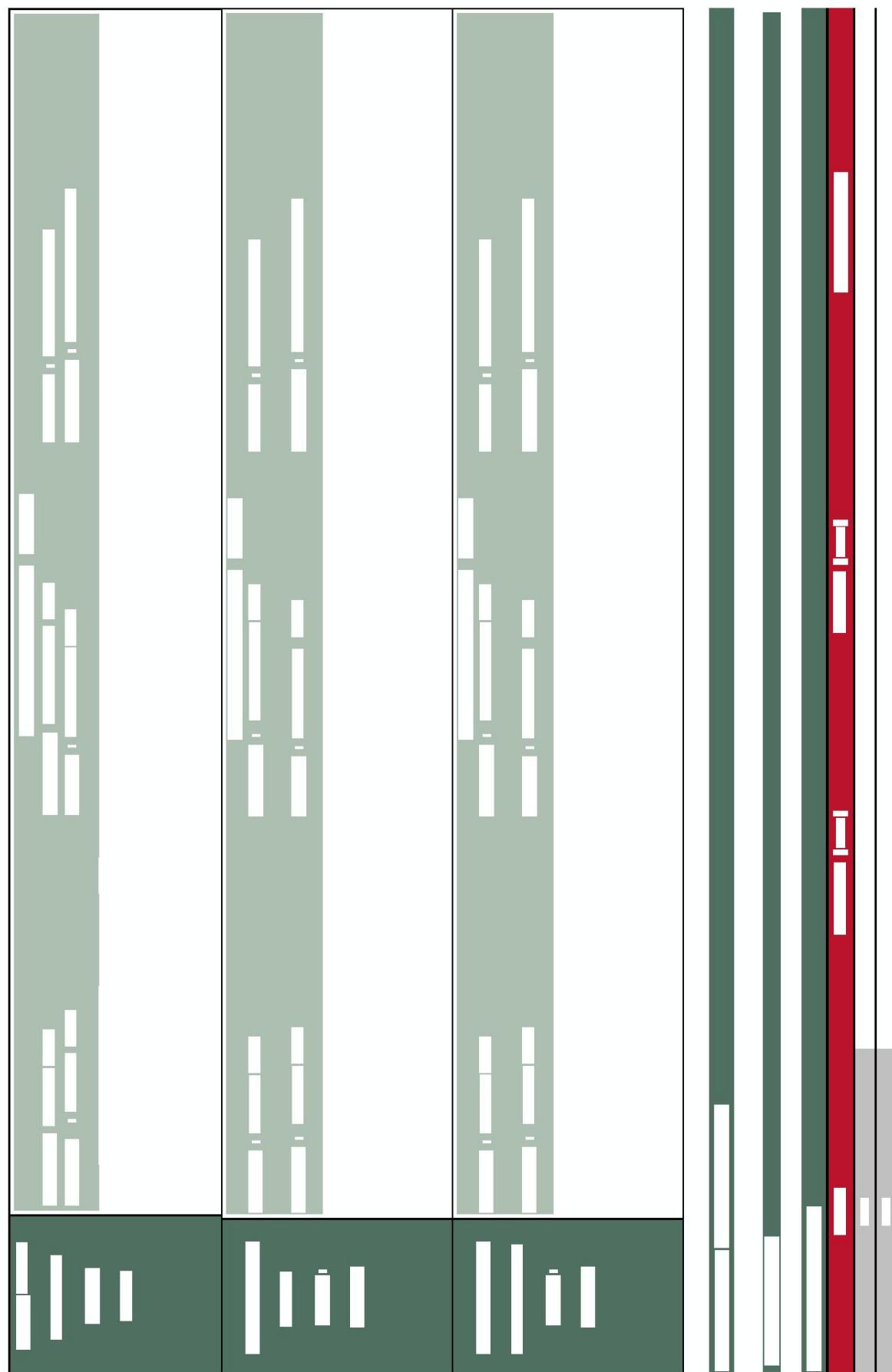


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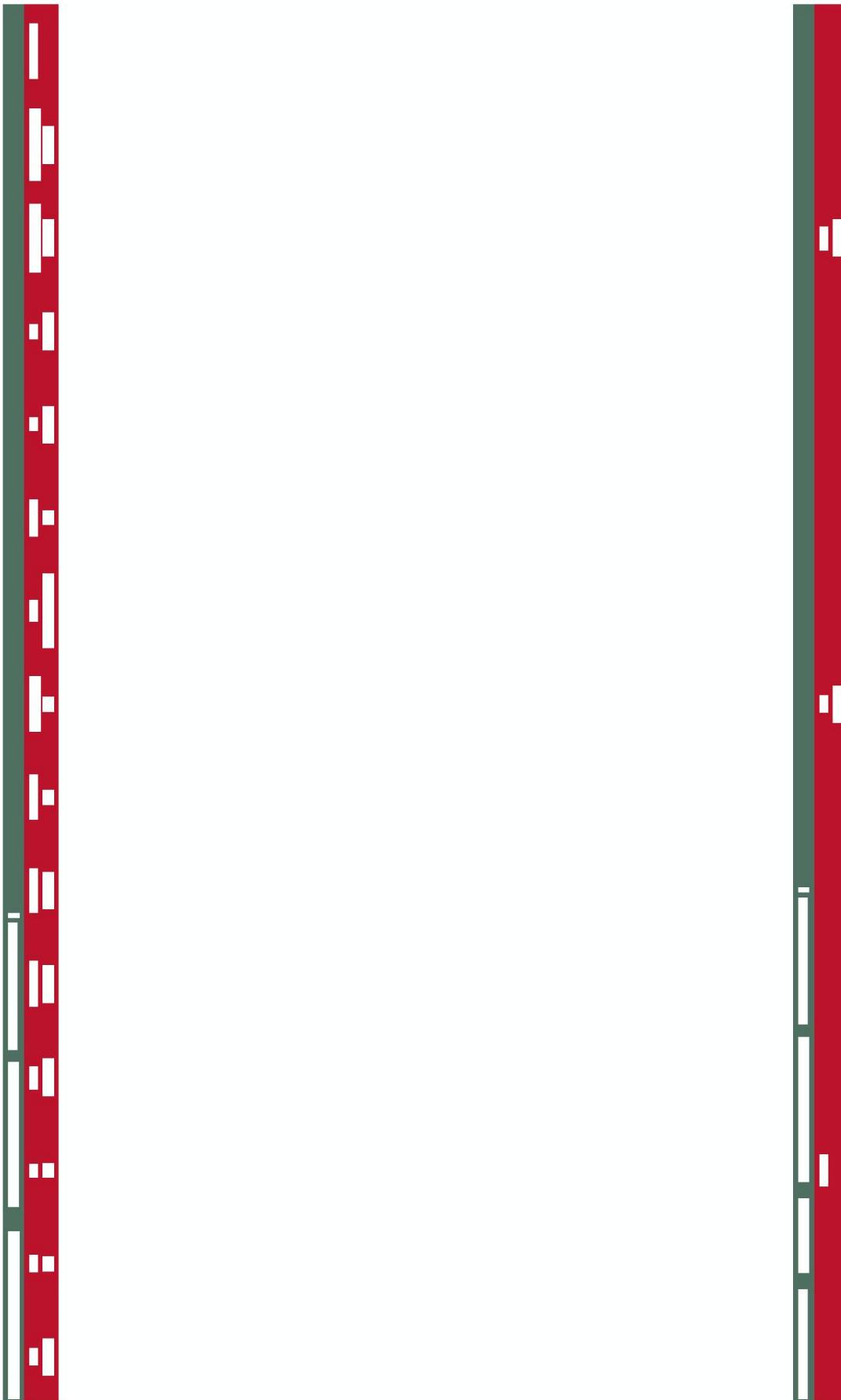


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